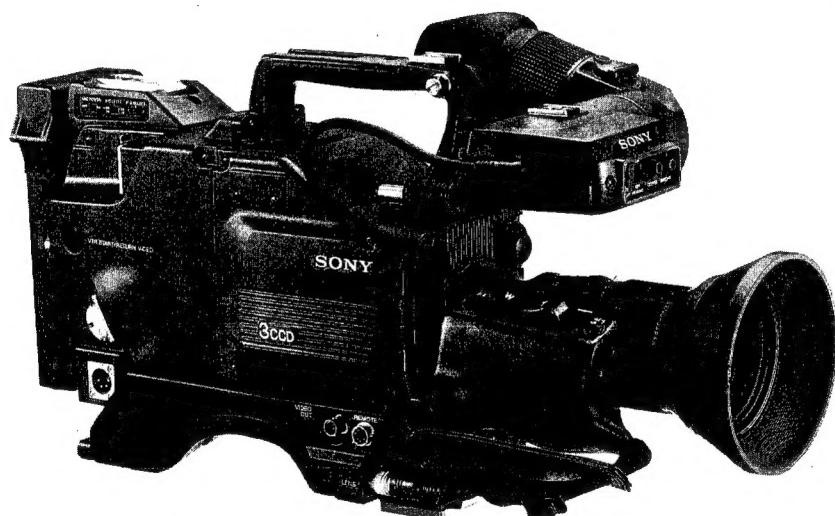


2013144

COLOR VIDEO CAMERA
CAMERA ADAPTOR
1.5INCH ELECTRONIC VIEWFINDER
ZOOM LENS
TRIPOD ATTACHMENT
CAMERA CABLE

DXC-537P
CA-537P
DXF-50BE
VCF-916BY
VGT-54
CCZ0-A2

VOL.2
BLOCK DIAGRAMS
SEMICONDUCTORS
SCHEMATIC DIAGRAMS
BOARD ILLUSTRATIONS
SPARE PARTS



SONY®
SERVICE MANUAL

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COLOR VIDEO CAMERA



SPECIFICATIONS

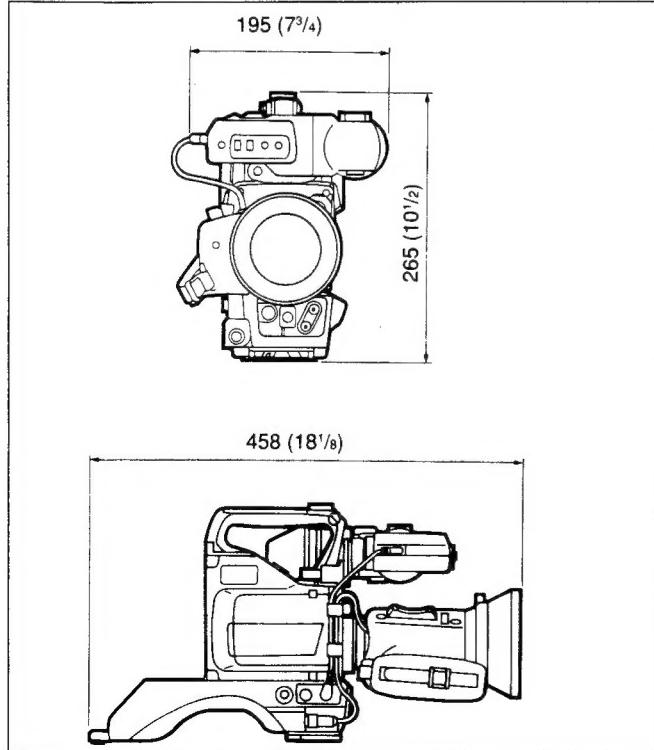
Camera Head (DXC-537/537P)

Image device	Interline-transfer CCD, 3-chip	Sync system	Internal
Picture elements			External with the BS or VBS signal supplied to the GEN LOCK IN connector (when the CA-537/537P, CA-325A/325AP or CA-325B is used) or the reference signal input to the VTR/CCU/CMA connector from the GEN LOCK IN connector of the CCU-M3/M3P/M7/M7P (when the CA-537/537P is used)
Sensing area	8.8 mm × 6.6 mm (equivalent to a 2/3-inch pickup tube)	Horizontal resolution	700 lines (center)
Built-in filters	1: 3200K 2: 5600 K + 1/4 ND 3: 5600 K 4: 5600 K + 1/16 ND	Minimum illumination	13 lux with F1.8, +18 dB 7.5 lux with F1.4, +18 dB
Lens mount	Bayonet mount	Sensitivity	2000 lux (Typical) at 3200 K
Signal system	EIA standards, NTSC color system (for DXC-537) CCIR standards, PAL color system (for DXC-537P)	Gain selection	0 dB, 9 dB or 18 dB, selectable
Scanning system	525 lines, 2:1 interlace, 30 frames/sec. (NTSC) 625 lines, 2:1 interlace, 25 frames/sec. (PAL)		
Scanning frequency	Horizontal: 15.734 kHz (NTSC) 15.625 kHz (PAL) Vertical: 59.94 Hz (NTSC) 50.00 Hz (PAL)		

SONY®
SERVICE MANUAL

Video output	Composite signal: 1.0 Vp-p, sync negative, 75Ω unbalanced Y/C separate signal: Y: 1.0 Vp-p, sync negative, unbalanced C: burst level 0.286 Vp-p (NTSC) 0.3 Vp-p (PAL) without sync
Signal to noise ratio	62 dB (NTSC, Typical) 60 dB (PAL, Typical)
Registration	0.05% for Zone I 0.05% for Zone II 0.05% for Zone III
Inputs/Outputs	VIDEO OUT: BNC-type LENS: 2/3-inch lens connector (12-pin) VF: 8-pin REMOTE: 10-pin
Power requirements	12 V DC
Power consumption	9.5 W
Operating temperature	-10°C to +45°C (14°F to 113°F)
Storage temperature	-20°C to +60°C (-4°F to 140°F)
Weight	2.2 kg (4 lb 14 oz)
Dimensions	See the illustrations below. Unit: mm (inches)

Dimensions



Carrying Case (LC-421)

Weight	About 7.7 kg (15 lb 7 oz)
Dimensions	About 790 × 440 × 340 mm (w/h/d) (31-1/8 × 17-3/8 × 13-1/2 inches)

Accessories Supplied

- CCZQ-A2 camera cable (with Z-type 26-14-pin connectors)
(supplied with the DXC-537K/537PK/537L/537PL only)
(1)
- VCL-916BY zoom lens (supplied with the DXC-537K/537PK
only) (1)
- DXF-501/501CE electronic viewfinder (supplied with the
DXC-537K/537PK/537L/537PL only) (1)
- LC-421 carrying case (supplied with the DXC-537K/537PK/
537L/537PL only) (1)
- VCT-14 tripod attachment (supplied with the DXC-537K/
537PK/537L/537PL only) (1)
- Lens cap (1)
- Chart for flange focal length adjustment (1)

Design and specifications are subject to change without notice.

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B. SEMICONDUCTOR

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C. SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS

PA-111	
PA-112	
PA-113C-3
DR-110	
CN-438	

PR-143.....	C-10
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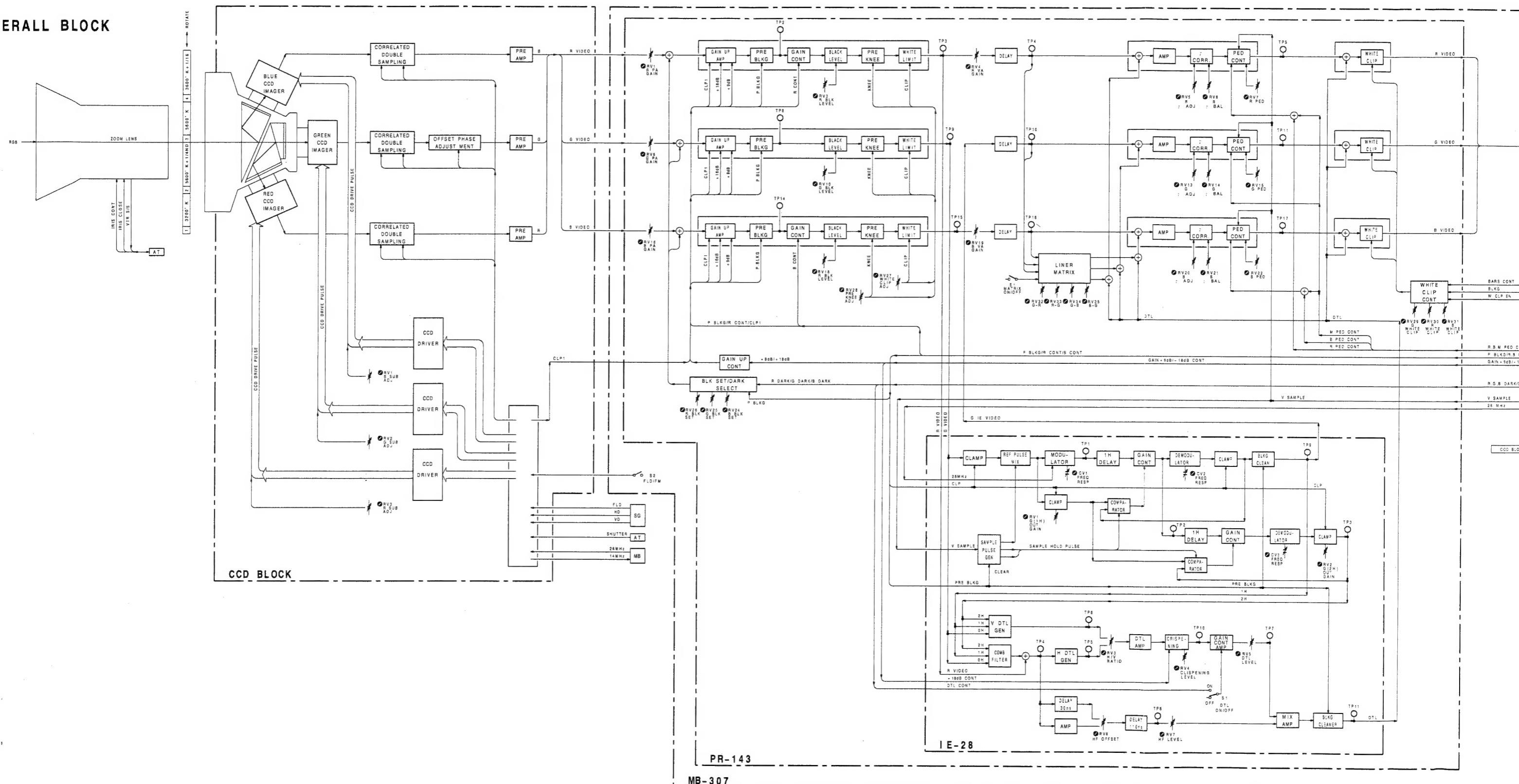
CN - 439	
MB - 307C-68
SW - 414	
SW - 415	

D. SPARE PARTS

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SECTION A
BLOCK DIAGRAMS

VERALL BLOCK

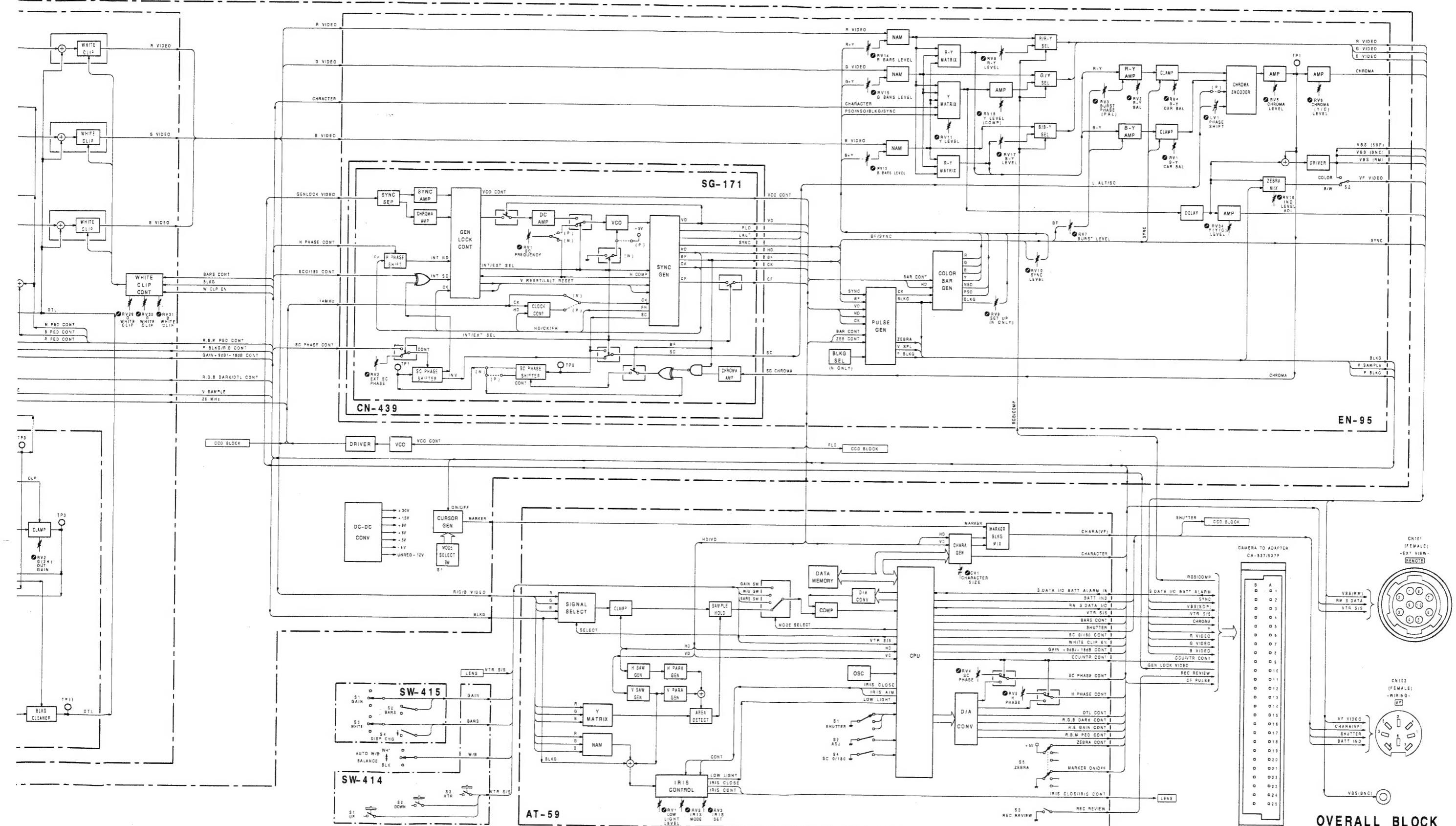


KC-537 (J, U C)
KC-537P (E K)

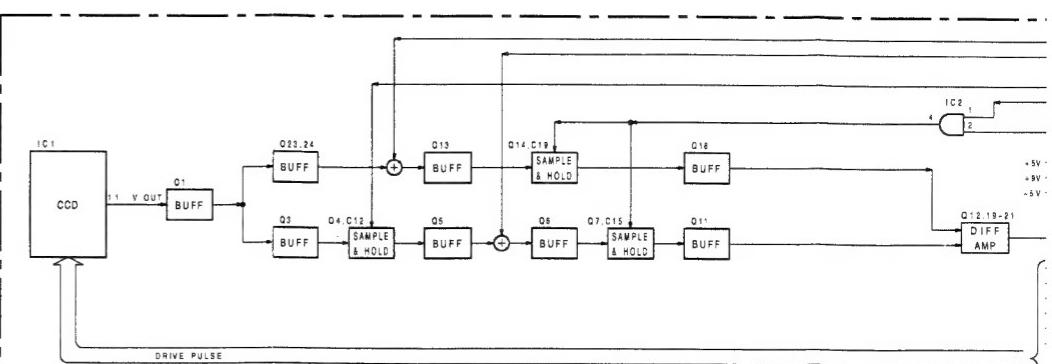
A-1

A-2

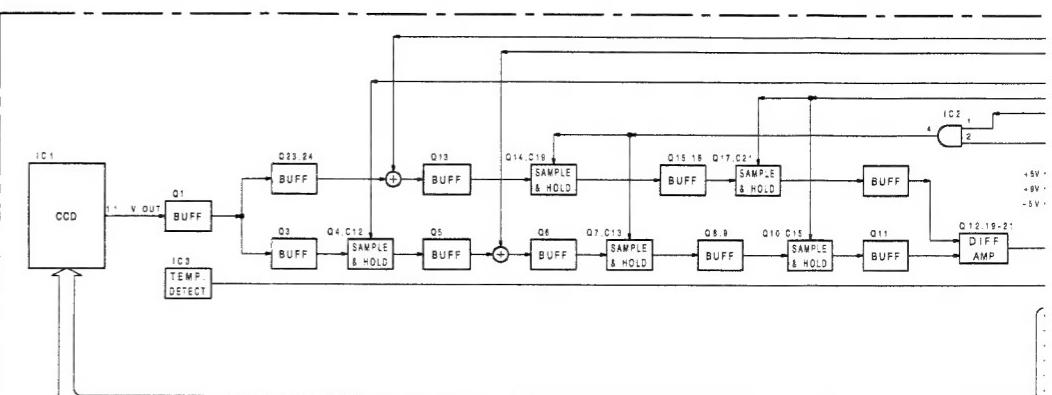
B**C****D****E****F****G****H**



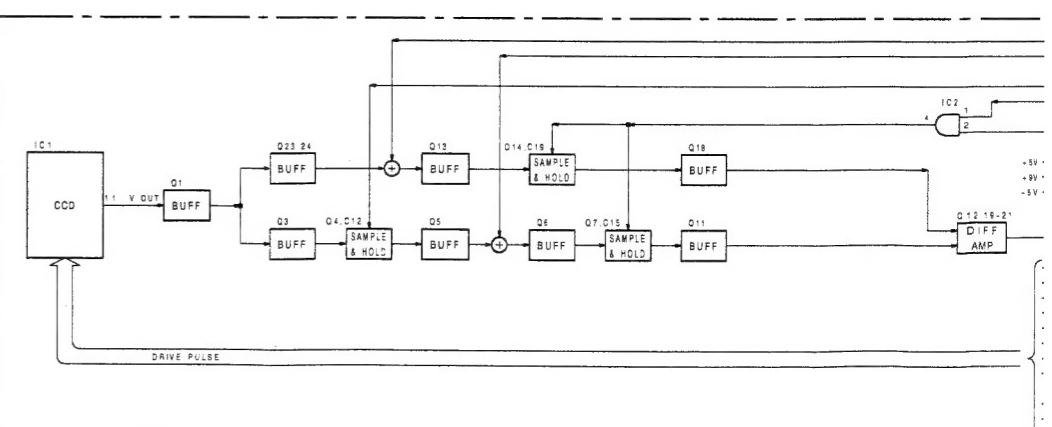
CCD BLOCK



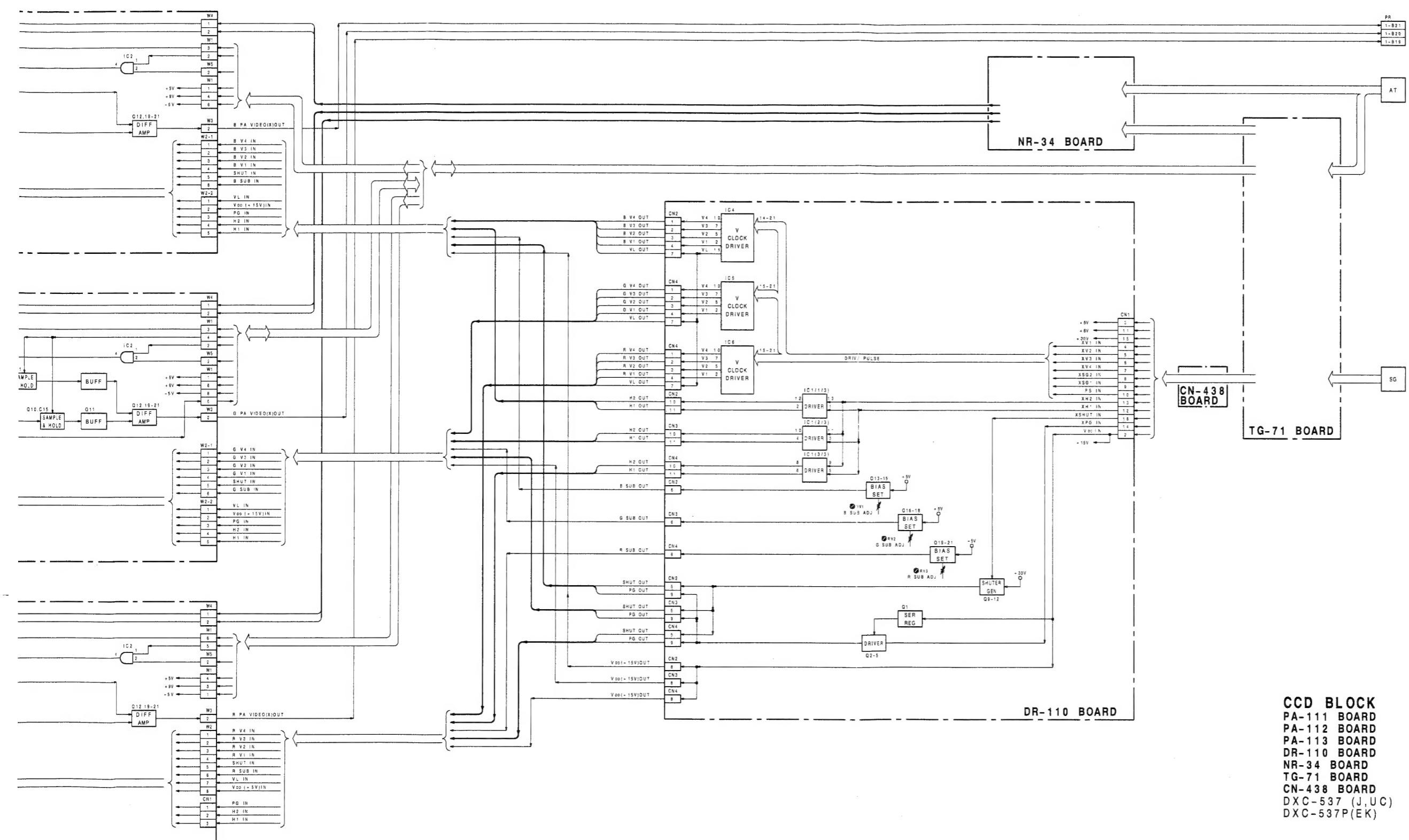
PA-113 BOARD (B)



PA-111 BOARD (G)

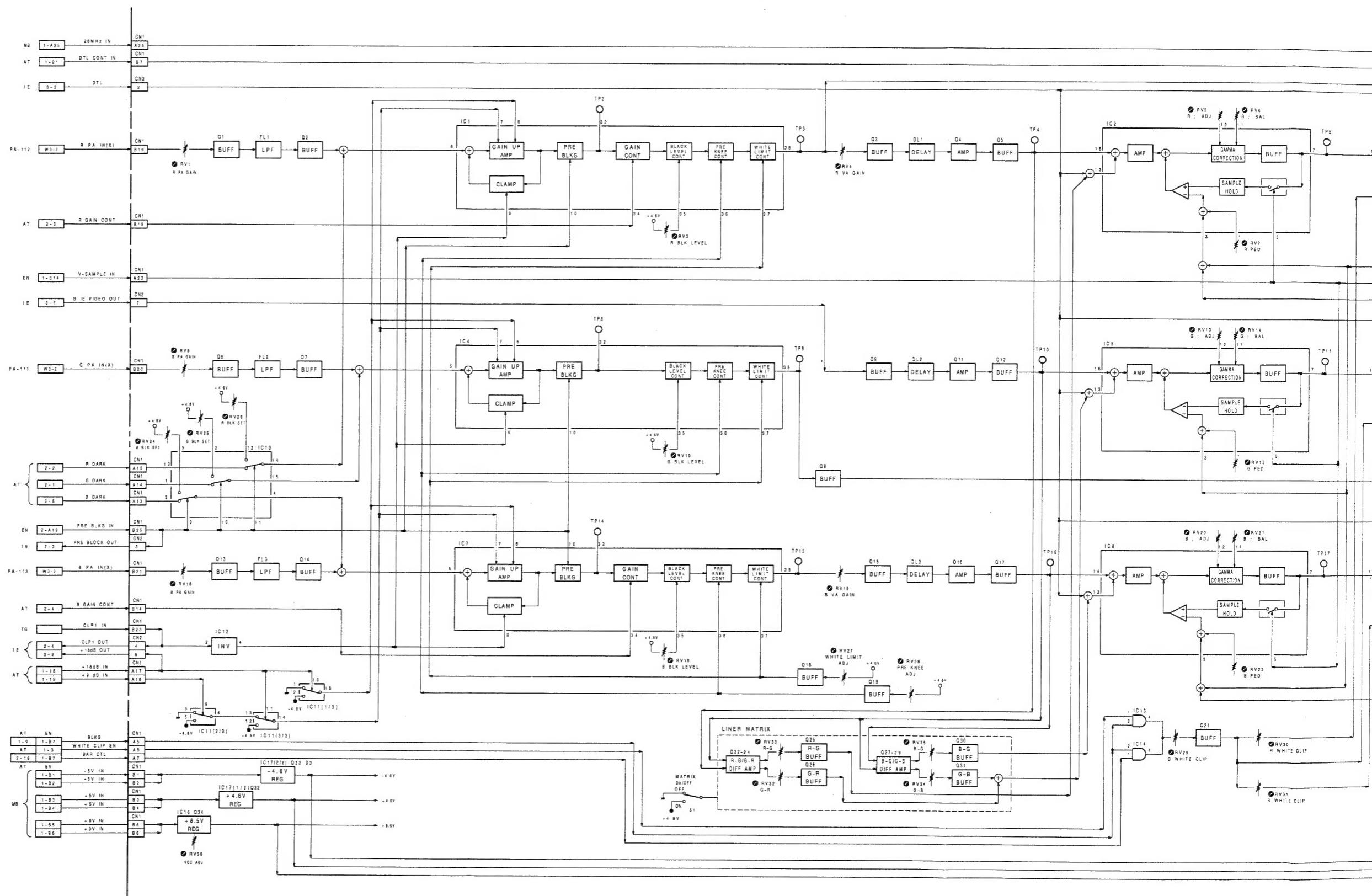


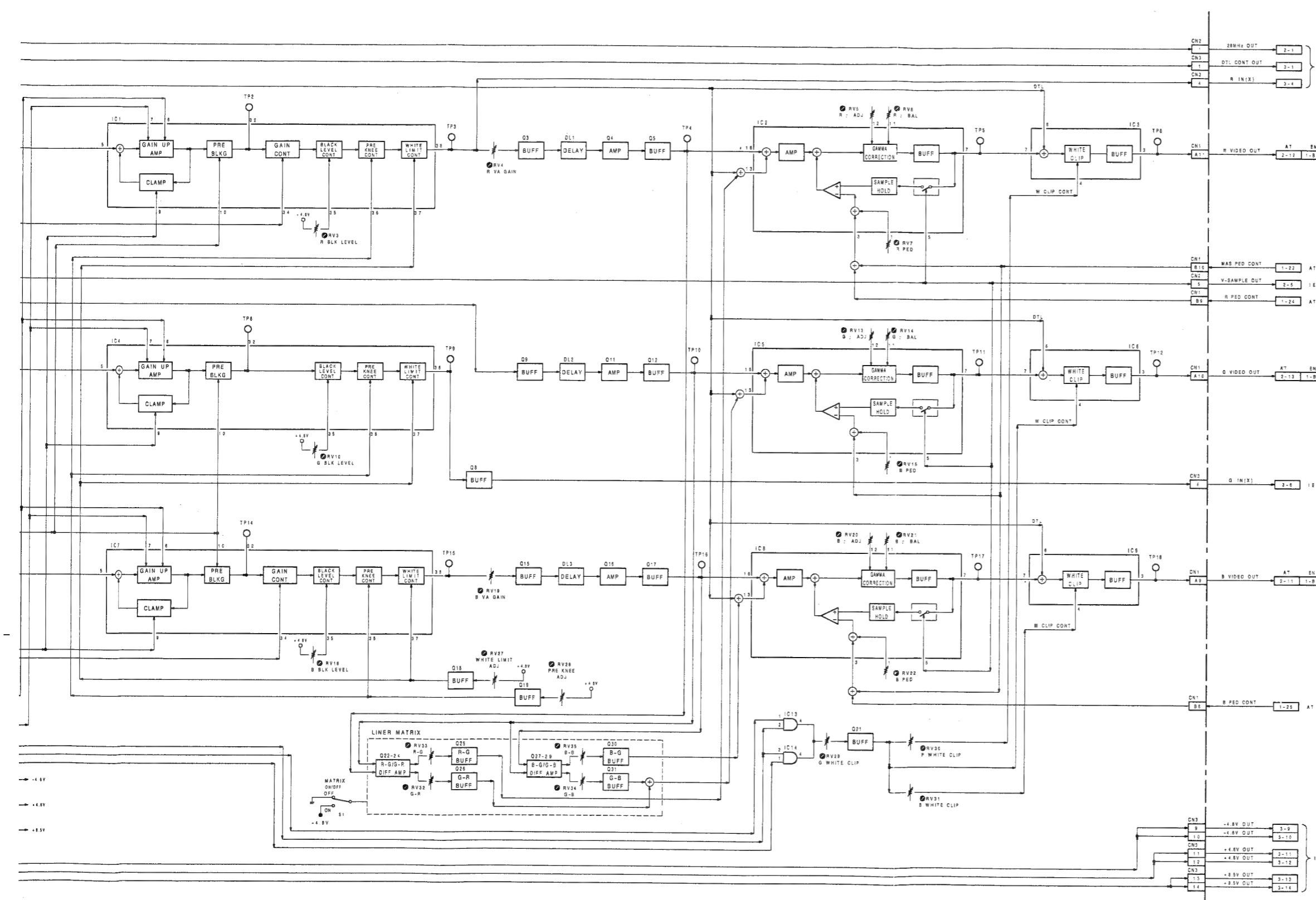
PA-112 BOARD (R)



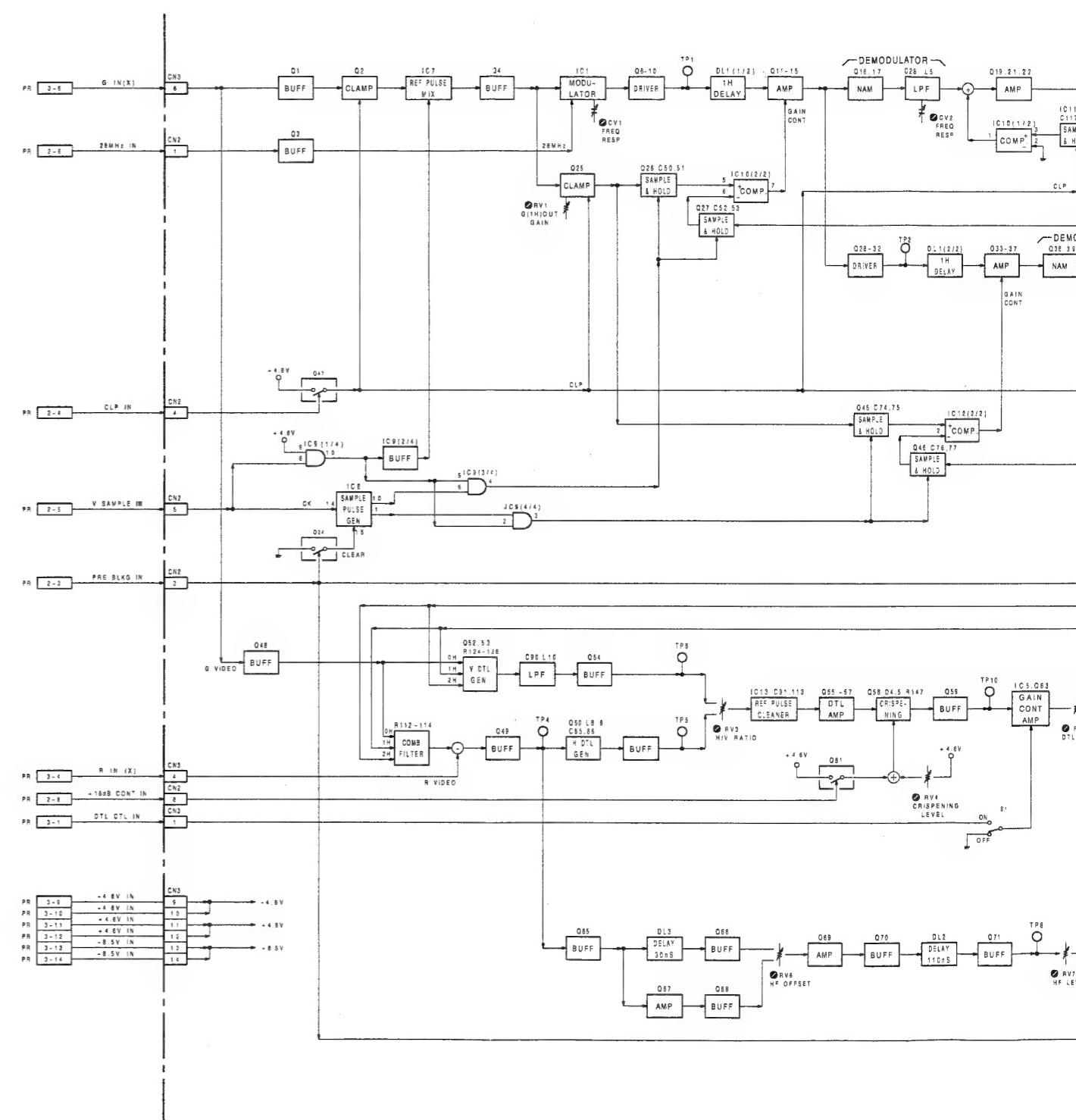
CCD BLOCK
PA-111 BOARD
PA-112 BOARD
PA-113 BOARD
DR-110 BOARD
NR-34 BOARD
TG-71 BOARD
CN-438 BOARD
DXC-537 (J, U C)
DXC-537P (E K)

PR-143 BLOCK

DXC-537 (J, U C)
DXC-537P(EK)



IE-28 BLOCK



A-12

B-DXC537-IE28BLOCK/M

A-13

A

B

C

D

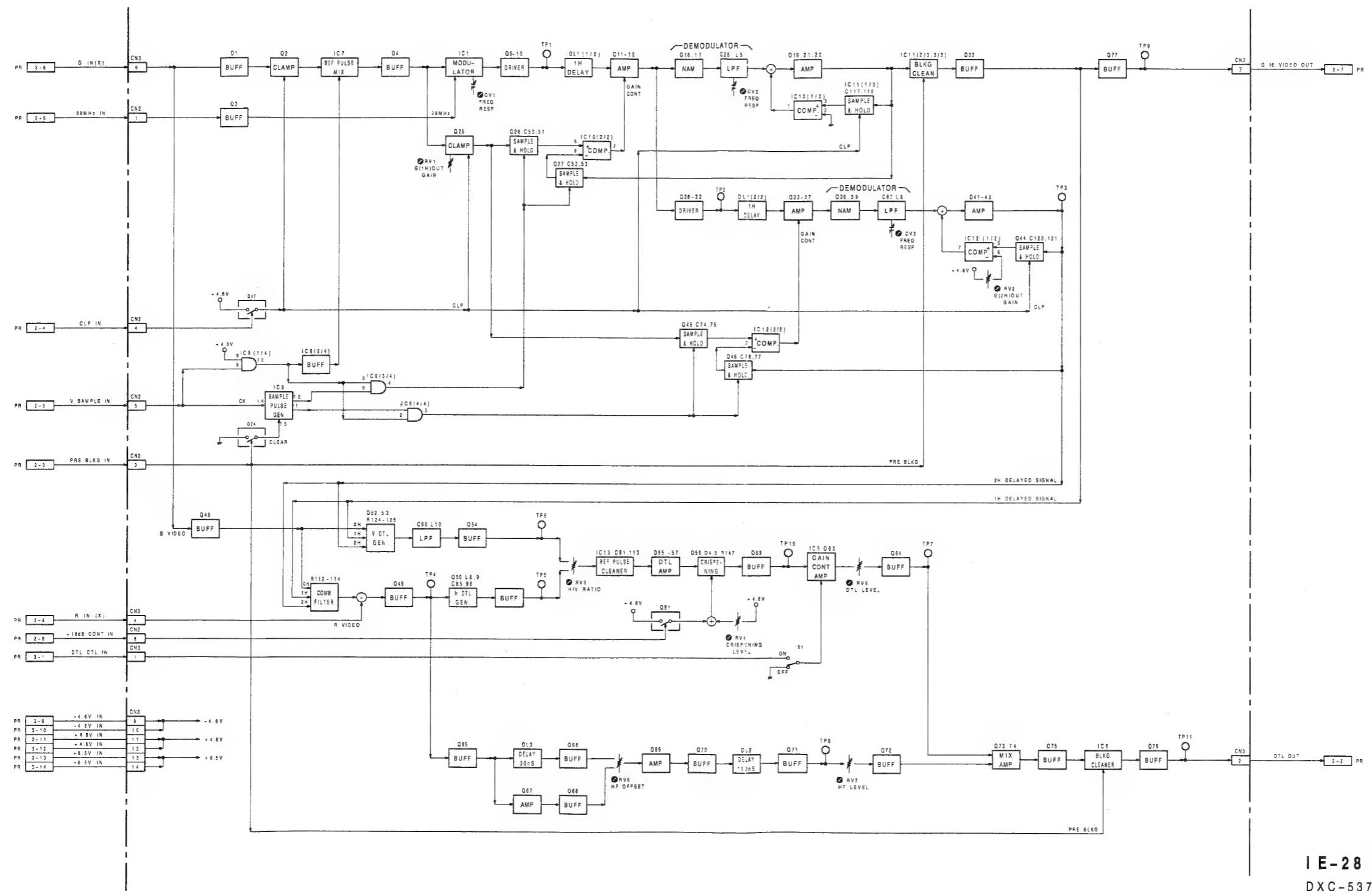
E

F

G

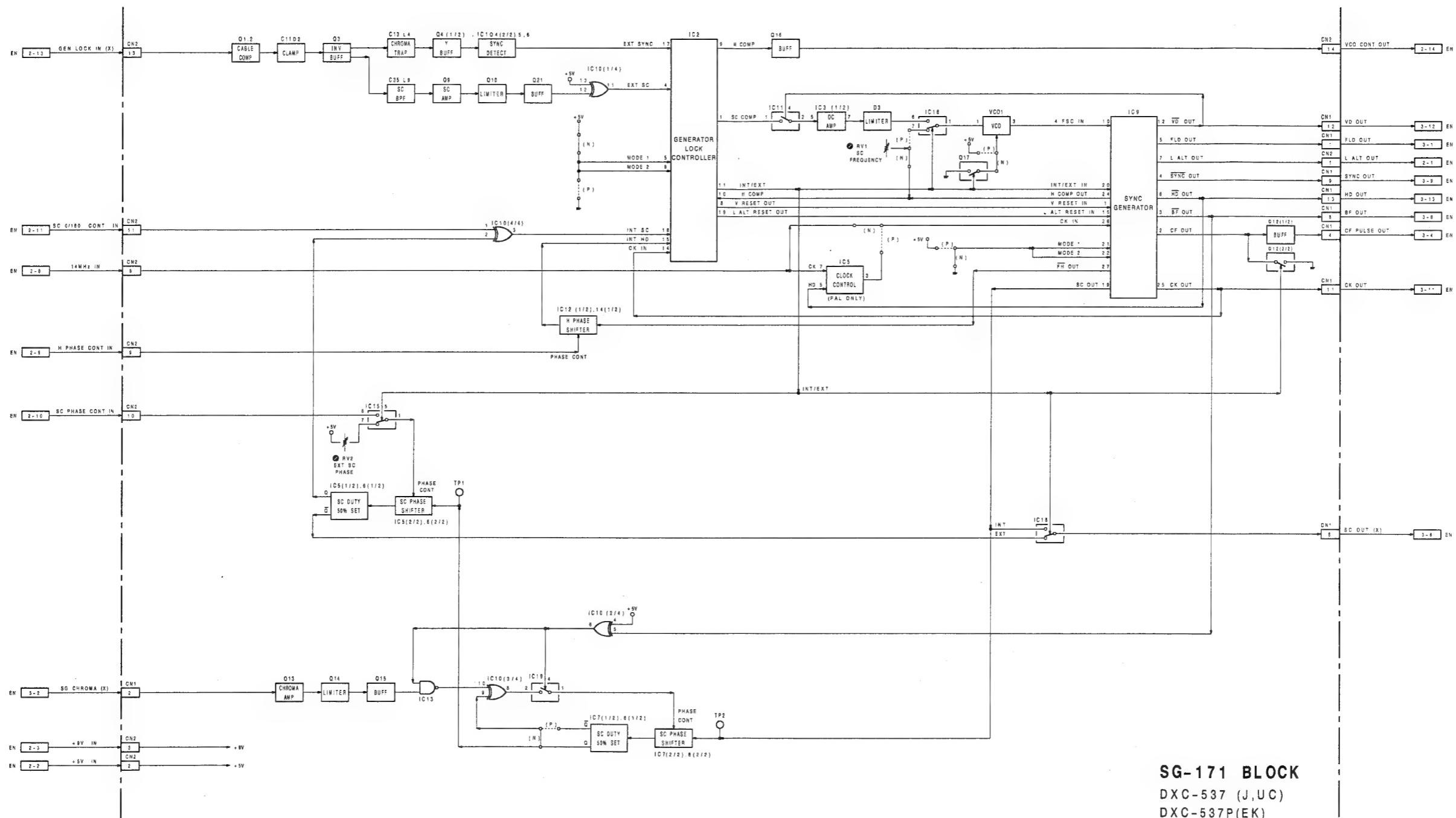
H

IE-28 BLOCK



IE-28 BLOCK
DXC-537 (J, U C)
DXC-537P(EK)

SG-171 BLOCK

DXC-537 (J, U C)
DXC-537P(EK)

A-15

A-16

B-DXC537-SG171BLOCK/M

A

B

C

D

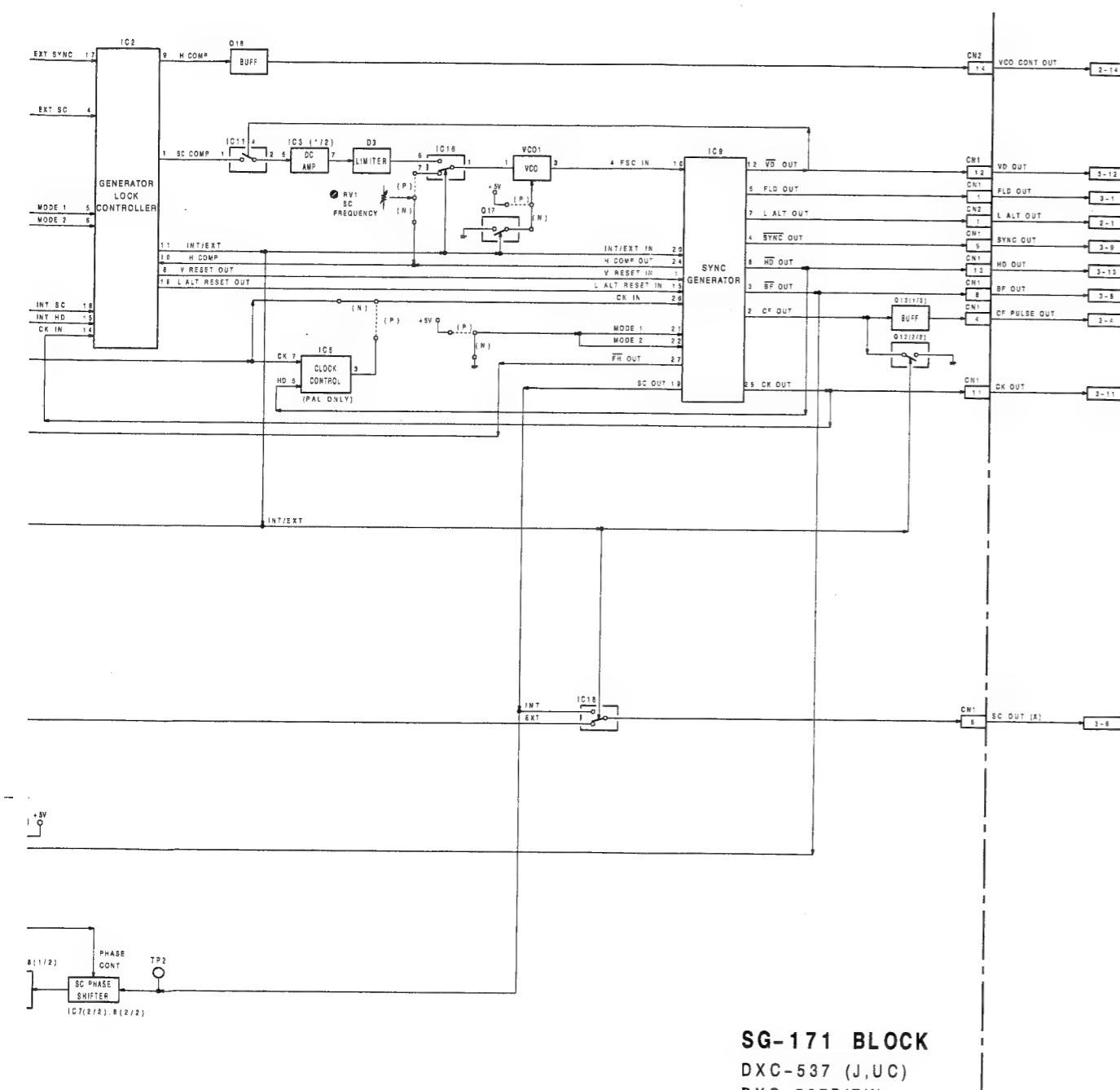
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F

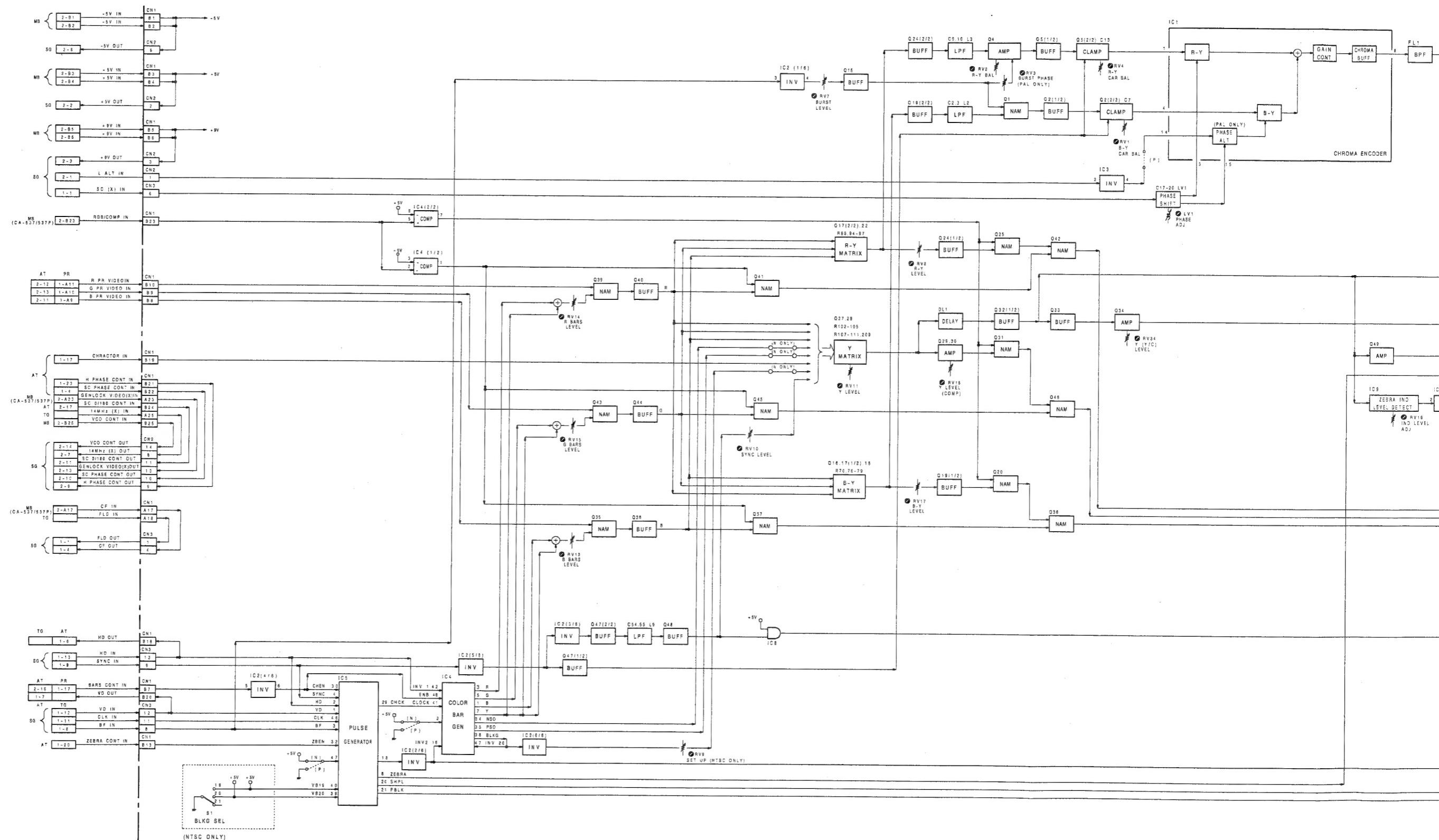
G

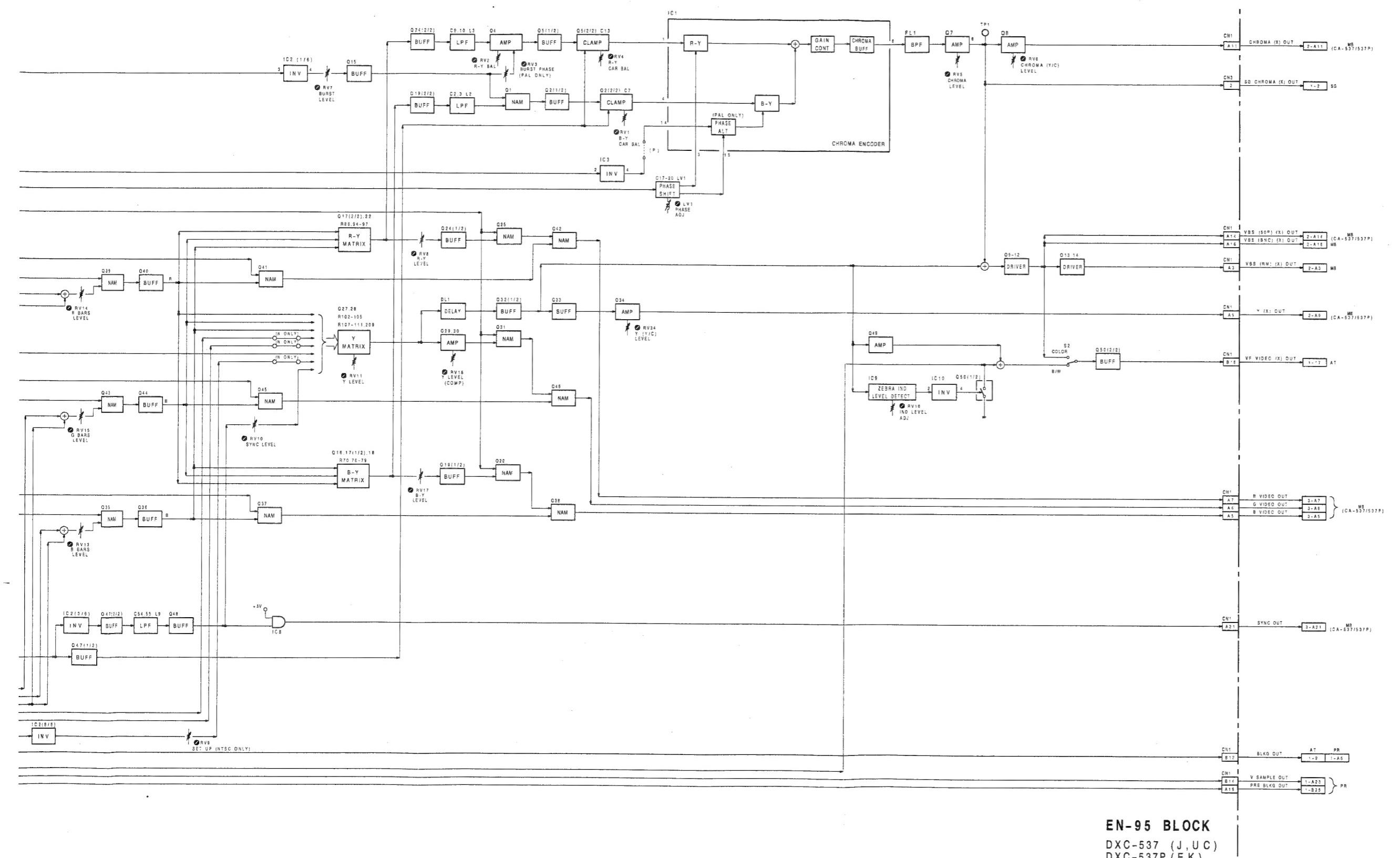
H

I

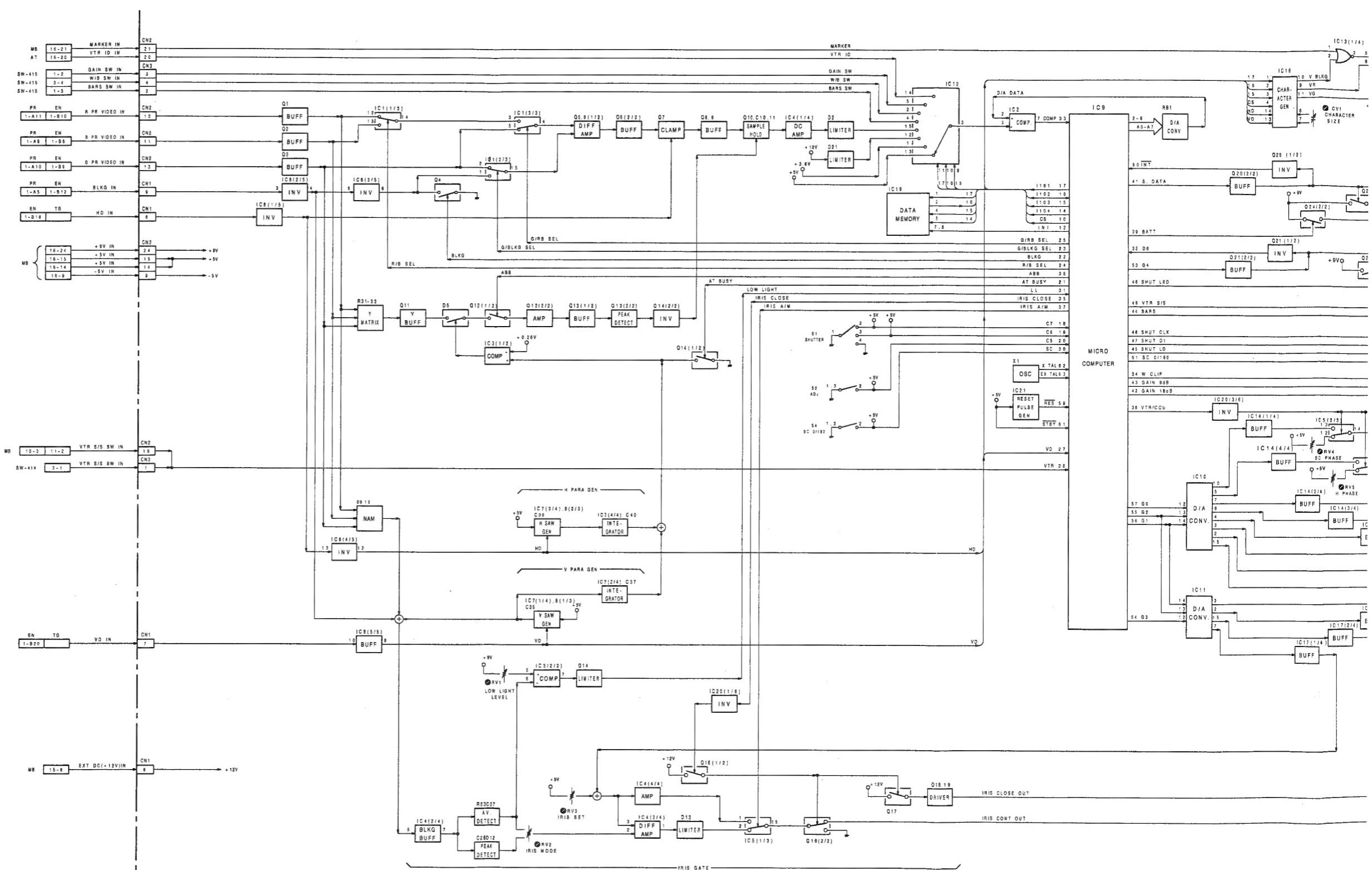


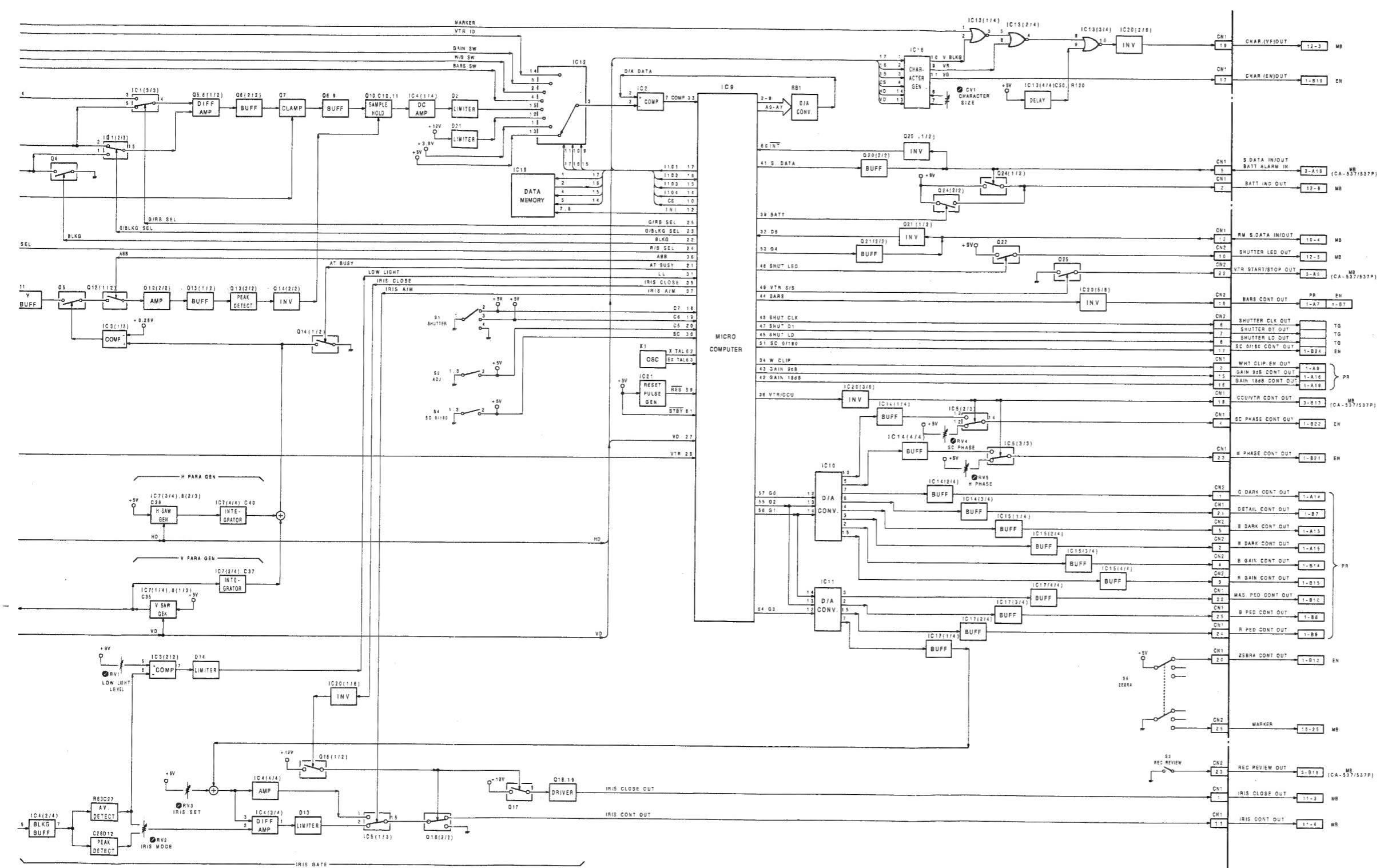
EN-95 BLOCK





AT-59 BLOCK

DXC-537 (J, U C)
DXC-537P (E K)



SECTION B

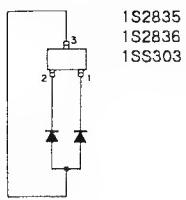
SEMICONDUCTOR

The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

TYPE	PAGE	TYPE	PAGE
1S2835	B-2	M5236ML	B-9
1S2836	B-2	M6M80011L	B-9
1S2837	B-2	MA152WK	B-2
1SS123	B-2	MB7116H	B-9
1SS226	B-2	MB88342PF	B-9
1SS303	B-2	MC14001BF	B-9
1SS97	B-2	MC14051BF	B-9
		MC14053BF	B-10
2SA1162	B-2	MC14069UBF	B-10
2SA1213	B-2	MC74HC86F	B-10
2SA1226	B-2		
2SA1462	B-2	NJM319M	B-10
2SA1610	B-2		
2SA1611	B-2	RC1496M	B-10
		RD ? ? M	B-2
2SB1123	B-2	SC7S04F	B-10
2SB1295	B-2	SC7S32F	B-10
2SB798	B-2		
2SB799	B-2	SN74HC00NS	B-10
2SB815	B-2	SN74HC04NS	B-3
		SN74HC86NS	B-10
2SC1009A	B-2	SN74LS123NS	B-11
2SC1623	B-2		
2SC2757	B-2	TC4017BF	B-11
2SC2873	B-2	TC4081BF	B-11
2SC4177	B-2	TC4S66F	B-11
		TC4SU69F	B-11
2SD1048	B-2	TC4W53F	B-11
2SD1623	B-2		
2SD999	B-2	TC74HC123AF	B-12
		TC74HC4538AF	B-12
2SK94	B-2		
3SK163	B-2	TC7S00F	B-12
74AC04SJ	B-3	TC7S04F	B-12
		TC7S08F	B-10
CX22017	B-3	TC7S32F	B-10
CX7968A	B-3		
CX7969	B-4	TL062CPS	B-12
		TL064CNS	B-12
CXD1216M	B-5	TL082CPS	B-12
CXD1217M	B-5		
CXD1361M	B-7	uPC311G2	B-12
CXD8154M	B-7	uPC358G2	B-12
		uPC812G2	B-12
HD6305Y0E27F	B-8	uPD6142G-101	B-12
HSM88AS	B-2		
HZ ? CLL	B-2	XN4601	B-2
		XN6401	B-2
LM2903M	B-8	XN6435	B-2
LM35DZ	B-8	XN6501	B-2
		XN6534	B-2

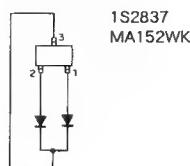
DIODE, TRANSISTOR

(SCALE 4/1)
TOP VIEW



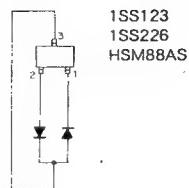
1S2835
1S2836
1SS303

(SCALE 4/1)
TOP VIEW

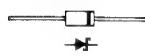


1S2837
MA152WK

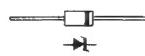
(SCALE 4/1)
TOP VIEW



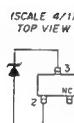
ISS123
ISS226
HSM88AS



ISS97

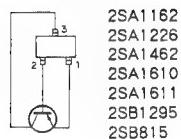


HZ ? CLL



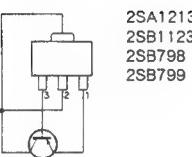
RD ? ?M

(SCALE 4/1)
TOP VIEW



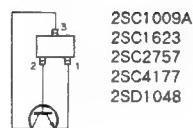
2SA1162
2SA1226
2SA1462
2SA1610
2SA1611
2SB1295
2SB815

(SCALE 4/1)
TOP VIEW



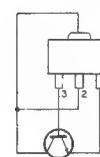
2SA1213
2SB1123
2SB798
2SB799

(SCALE 4/1)
TOP VIEW



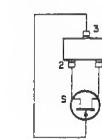
2SC1009A
2SC1623
2SC2757
2SC4177
2SD1048

TOP VIEW (SCALE 4/1)

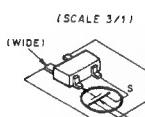


2SC2873
2SD1623
2SD999

TOP VIEW (SCALE 4/1)

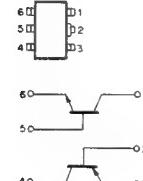


2SK94



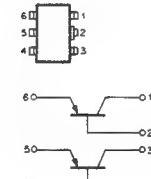
3SK163

(SCALE 3/1)
TOP VIEW



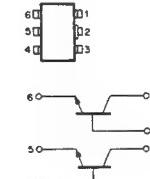
XN4601

(SCALE 6/1)
TOP VIEW



XN6401
XN6435

(SCALE 6/1)
TOP VIEW

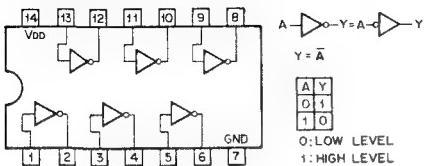


XN6501
XN6534

74AC04SJ (NS) FLAT PACKAGE
SN74HC04NS (T) FLAT PACKAGE

C-MOS HEX INVERTER

- TOP VIEW -



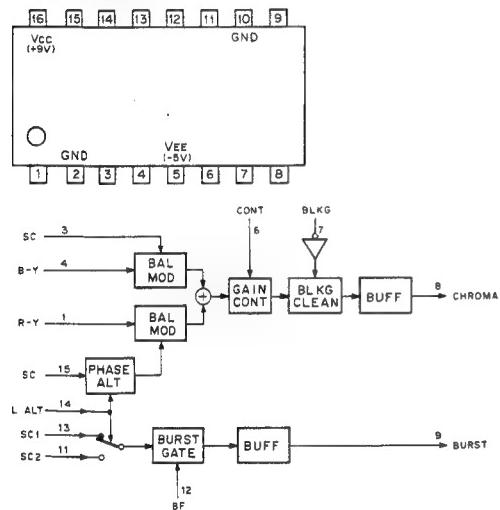
NOTE :

TYPE	V _{DD}
74ACT04 TYPES	+5V
74HCT04 TYPES	+5V
TC74AC04F	+2 to +5.5V
TC74ACT04F	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

CX22017 (SONY)

VIDEO SIGNAL PROCESSOR

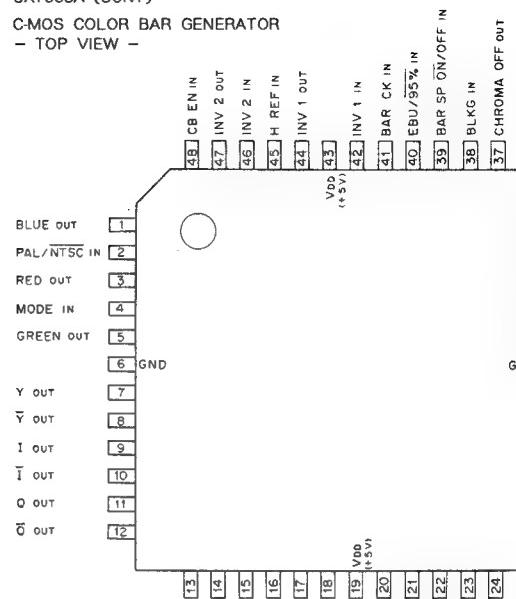
- TOP VIEW -



CX7968A (SONY)

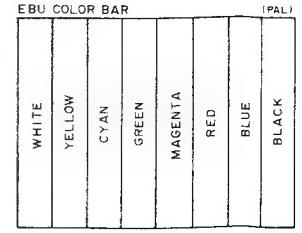
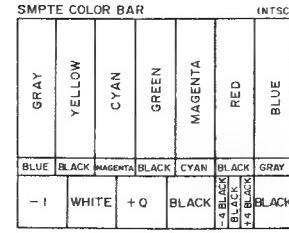
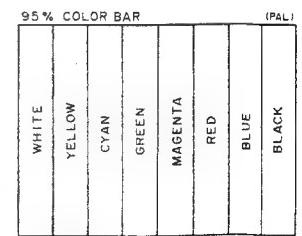
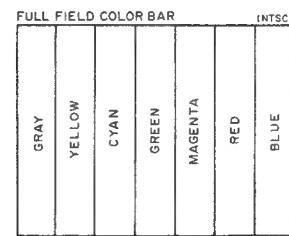
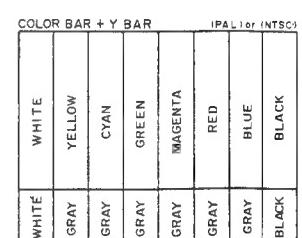
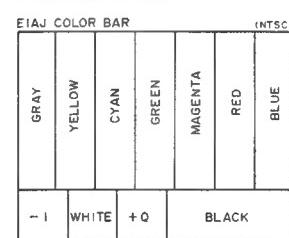
C-MOS COLOR BAR GENERATOR

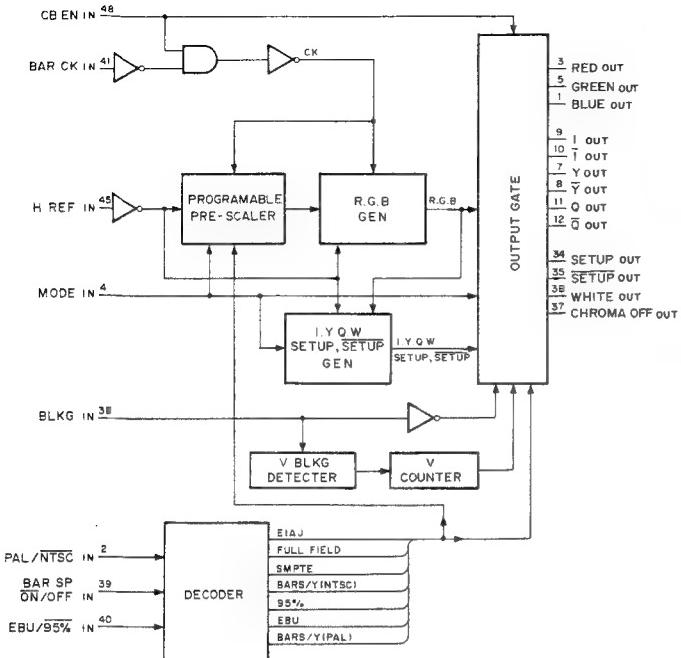
- TOP VIEW -



INPUT	FUNCTION
PAL/NTSC	EIAJ COLOR BAR
MODE	FULL FIELD COLOR BAR
0 0	INHIBIT
0 0	INHIBIT
0 0	EIAJ COLOR BAR
0 1	FULL FIELD COLOR BAR
0 1	SMPTE COLOR BAR
0 1	COLOR BAR + Y BAR
1 0	95% COLOR BAR
1 0	INHIBIT
1 0	EBU COLOR BAR
1 0	INHIBIT
1 1	95% COLOR BAR
1 1	COLOR BAR + Y BAR
1 1	EBU COLOR BAR
1 1	INHIBIT

C COLOR BAR PATTERN





1. SYSTEM DESIGNATION	
INPUT	SYSTEM
PAL/NTSC IN	
1	PAL, SECAM
0	NTSC, PALM

2. TYPE OF TUBE	
INPUT	FUNCTION
MF / MM IN	MAG - STA TUBE
0	MAG - MAG TUBE

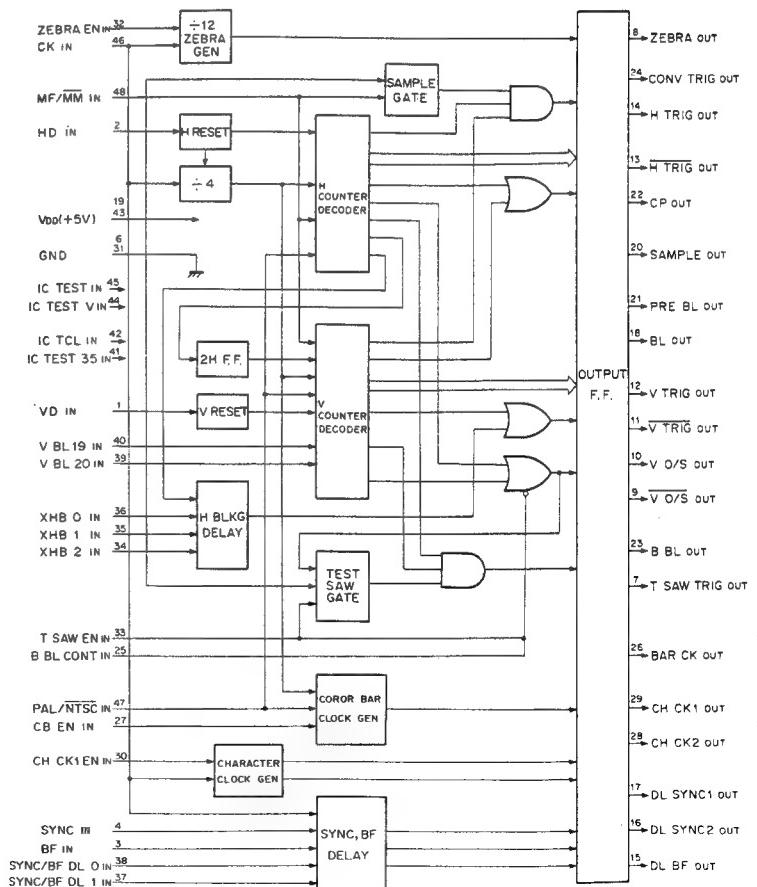
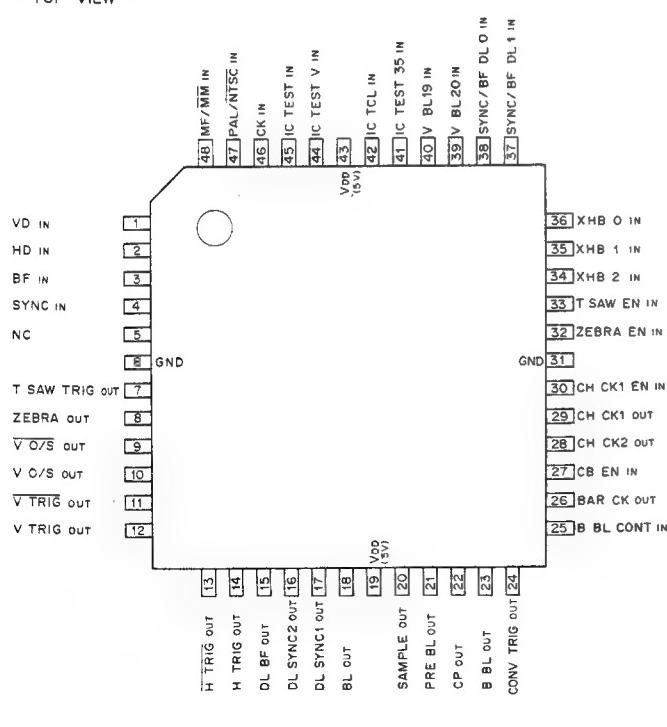
3.V BLKG WIDTH (NTSC ONLY)		
INPUT	V BLKG WIDTH	
V BL19	V BL20	
1	X	19H
0	1	20H
0	0	21H

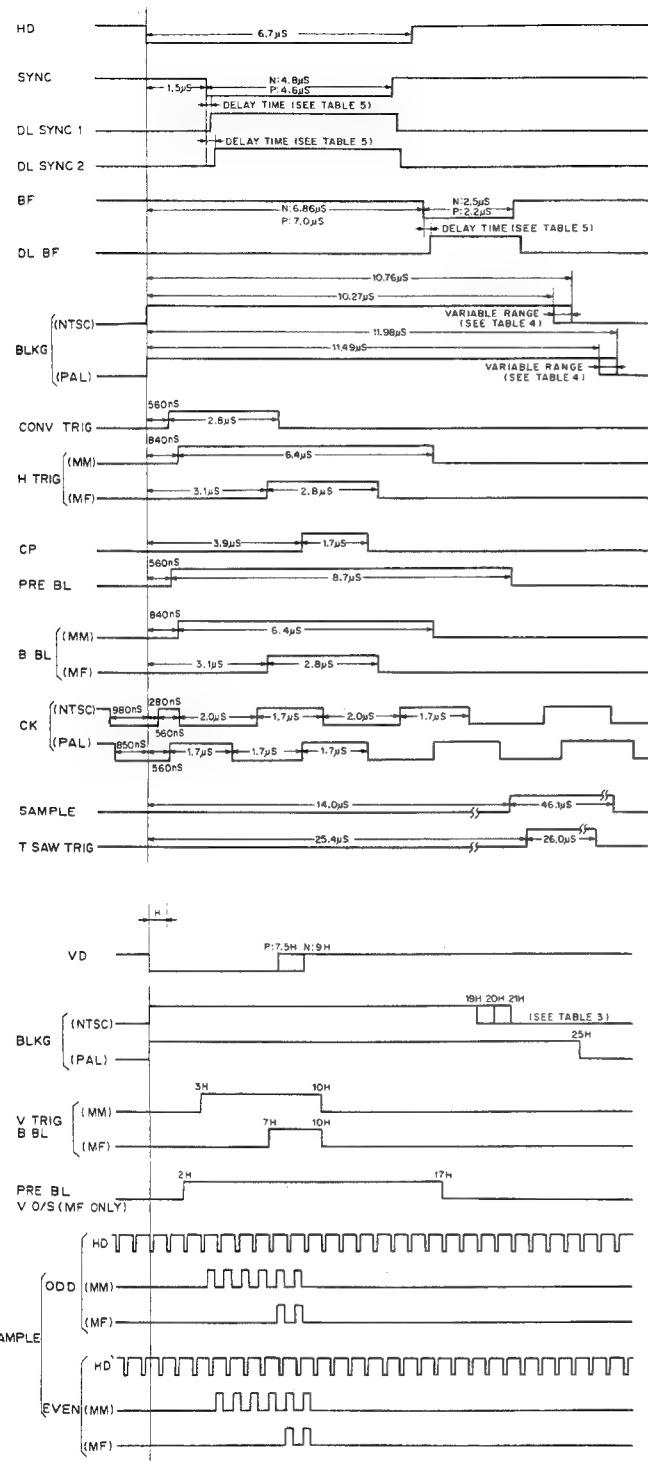
4. H BLKG WIDTH			
INPUT	BLKG WIDTH (μS)		
XHB2	XHB1	XBO	NTSC PAL
1	1	1	10.27 11.49
1	1	0	10.34 11.56
1	0	1	10.41 11.63
1	0	0	10.48 11.70
0	1	1	10.55 11.77
0	1	0	10.62 11.84
0	0	1	10.69 11.91
0	0	0	10.76 11.98

5. DELAY TIME		DELAY TIME (ns)		
INPUT		DL SYNC 1	DL SYNC 2	DL BF
SYNC/BF DL1	SYNC/BF DL2	140	210	140
1	1	140	210	140
1	0	210	280	210
0	1	630	700	630
0	0	700	770	700

1; HIGH LEVEL
0; LOW LEVEL
X; DON'T CARE

CX7969 (SONY)
C-MOS PULSE GENERATOR
- TOP VIEW -

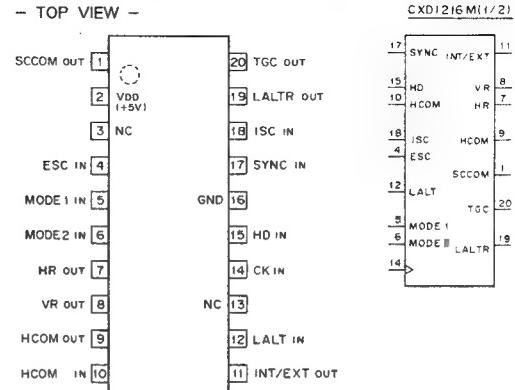




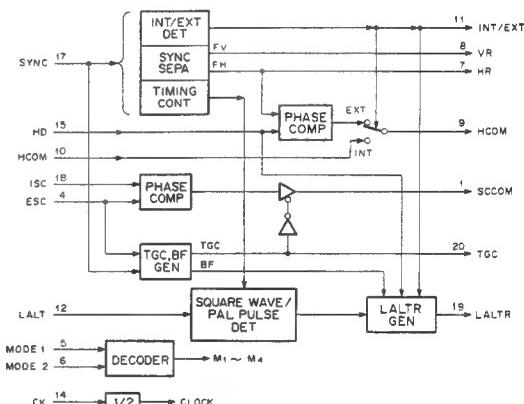
CXD1216M (SONY) FLAT PACKAGE

C-MOS GENLOCK DRIVER

- TOP VIEW -



INPUT	MODE	SYSTEM
MODE1 / MODE2		
0 / 0	M1	PAL-VBS
1 / 0	M2	PALM-VBS
0 / 1	M3	PAL-SECAM-VS/SC/LALT
1 / 1	M4	NTSC-VBS, NTSC-VS/SC PALM-VS/SC/LALT

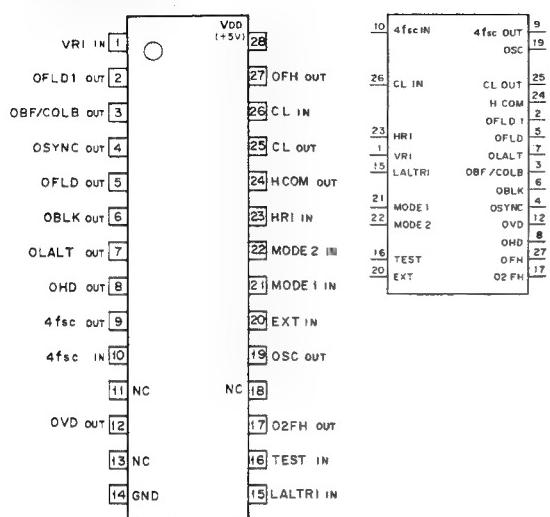
0 : LOW LEVEL
1 : HIGH LEVEL

INPUT	OUTPUT
CK	4fsc CLOCK INPUT
ESC	SC/COLOR BURST
HCOM	PHASE COMPARE FROM CXD1217
HD	H DRIVE FROM CXD1217
ISC	SUBCARRIER FROM CXD1217
LALT	LALT FROM REFERENCE SIGNAL GENERATOR
MODE1,2	SYSTEM SELECT
SYNC	SYNC FROM REFERENCE SIGNAL GENERATOR
OUTPUT	
HCOM	PHASE COMPARATOR HR WITH HD
HR	1H OF SYNC SEPARATE
INT/EXT	INTERNAL/EXTERNAL SPECIFIED
LALTR	LINE CHANGE RESET
SCOM	PHASE COMPARATOR ESC WITH ISC
TGC	TRISTATE CONTROL
VR	1V OF SYNC SEPARATE

CXD1217M (SONY) FLAT PACKAGE

C-MOS SYNC GENERATOR

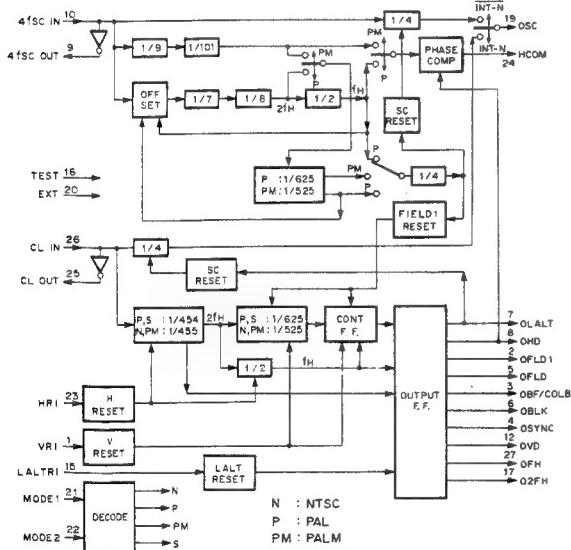
- TOP VIEW -



SYSTEM	4fsc	CLOCK
NTSC	910fh	910fh
PAL	1135fh+2fh	908fh
PALM	909fh	910fh
SECAM	—	908fh

INPUT	SYSTEM
MODE1 / MODE2	NTSC
0 : 0	0
0 : 1	SECAM
1 : 0	PALM
1 : 1	PAL

0 : LOW LEVEL
1 : HIGH LEVEL

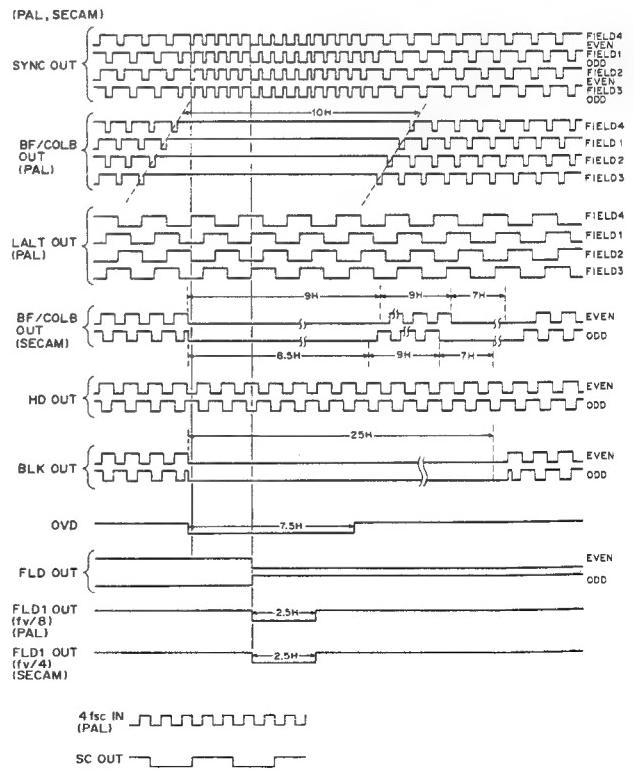
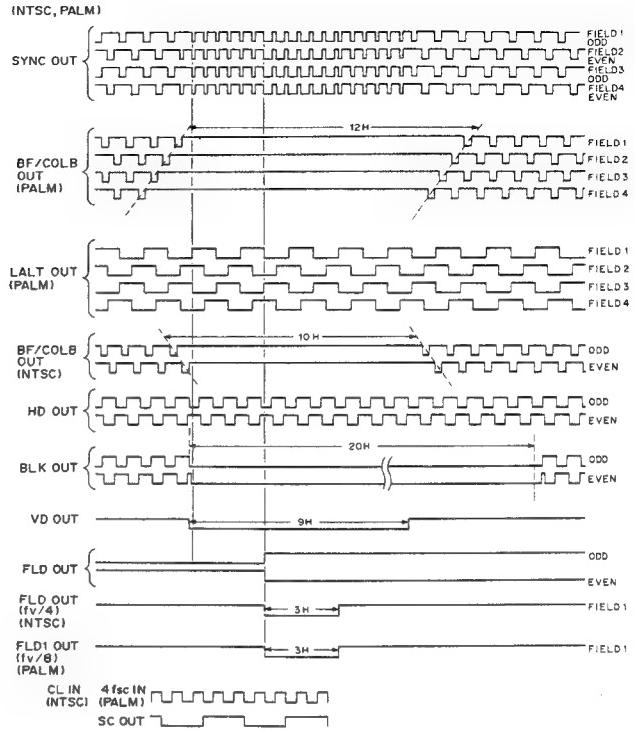


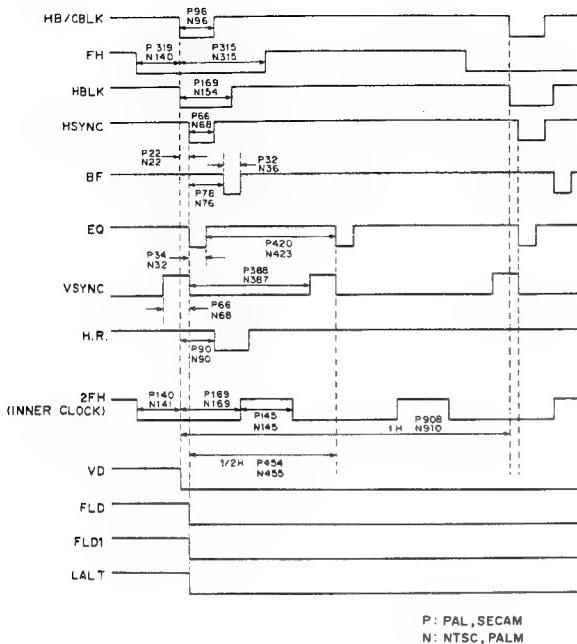
INPUT

- 4fsc IN : 4fsc INPUT
- CL IN : CLOCK INPUT
- EXT : SYNC MODE SELECT
(L : INTERNAL/H : EXTERNAL)
- HRI : H RESET
- LALTRI : LINE CHANGE RESET
- MODE 1,2 : SYSTEM SELECT
- VRI : V RESET

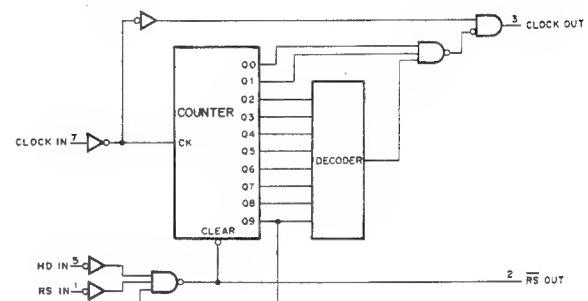
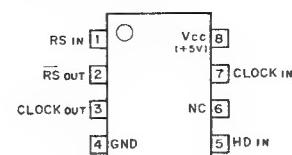
OUTPUT

- 4fsc OUT : 4fsc OUTPUT
- CL OUT : CLOCK OUTPUT
- HCOM : PHASE COMPARATOR
- O2FH : 2fh OUTPUT
- OBF/COLB : BURST FLAG/COLOR BLANKING
- OBLK : COMPOSITE BLANKING
- OFH : H FREQUENCY
- OFLD : EVEN/ODD
- OFLD1 : FIELD1
- OHD : H DRIVE
- OLALT : LINE CHANGE
- OSC : SUBCARRIER
- OSYNC : COMPOSITE SYNC
- OVD : V DRIVE

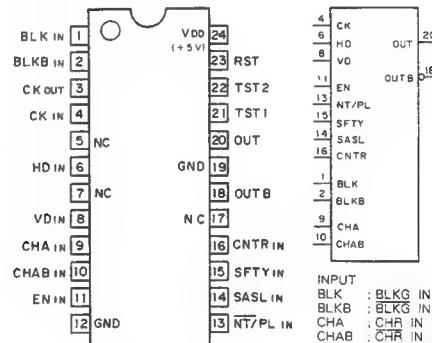




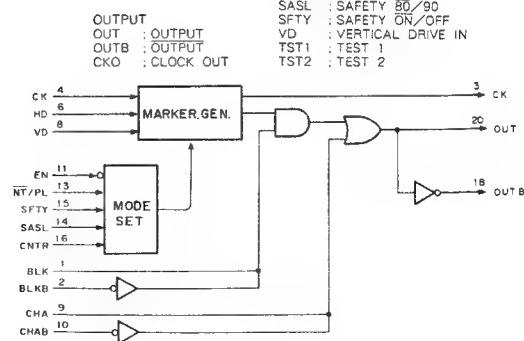
CXD1361M (TI) FLAT PACKAGE
CLOCK CONTROLLER
- TOP VIEW -



CXD8154M (SONY)
C-MOS GATE ARRAY
- TOP VIEW -

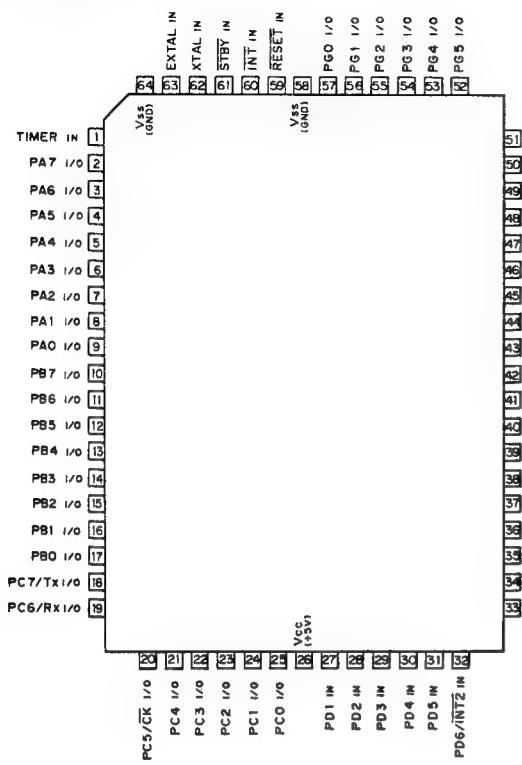


INPUT	
BLK	: BLKG IN
BLKB	: BLKG IN
CHA	: CHR IN
CHAB	: CHR IN
CK	: CLOCK IN
CNTR	: CENTER ON/OFF
EN	: ENABLE IN
HD	: HORIZONTAL DRIVE IN
NT/PL	: NTSC/PAL
RST	: RESET
SASL	: SAFETY BD/90
SFTY	: SAFETY ON/OFF
VD	: VERTICAL DRIVE IN
TST1	: TEST 1
TST2	: TEST 2



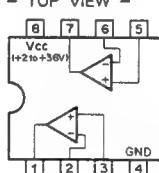
HD6305Y0E27F (HITACHI)

C-MOS 8-BIT MICROPROCESSOR UNIT
- TOP VIEW -

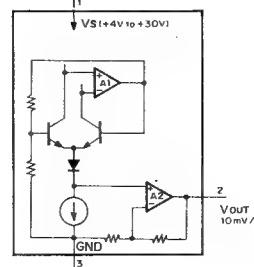


27	PD1	PE0	34	PAB~PAT	8-BIT I/O PORT A
28	PD2	PE1	35	PB0~PB7	8-BIT I/O PORT B
29	PD3	PE2	36	PC0~PC7	8-BIT I/O PORT C
30	PD4	PE3	37	PD1~PD7	7-BIT IN PORT D
31	PD5	PE4	38	PE0~PE7	8-BIT OUT PORT E
32	PD6/INT2	PE5	39	PF0~PF7	8-BIT OUT PORT F
33	PD7	PE6	40	PG0~PG7	8-BIT I/O PORT G
		PE7	41		RESET
			42		RESET IN
			43		STANDBY IN
			44		INT
			45		INT2
			46		INTERRUPT IN
			47		TIMER CONTROL IN
			48		EXTERNAL CRYSTAL IN
			49		SERIAL INTERFACE CLOCK I/O
			50		SERIAL DATA RECEIVE
			51		SERIAL DATA TRANSMIT
			52		
			53		
			54		
			55		
			56		
			57		
			58		
			59		
			60		
			61		
			62		
			63		
			64		

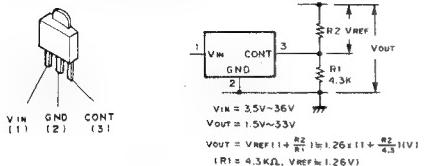
LM2903M (RAYTHEON) FLAT PACKAGE
DUAL VOLTAGE COMPARATORS
- TOP VIEW -



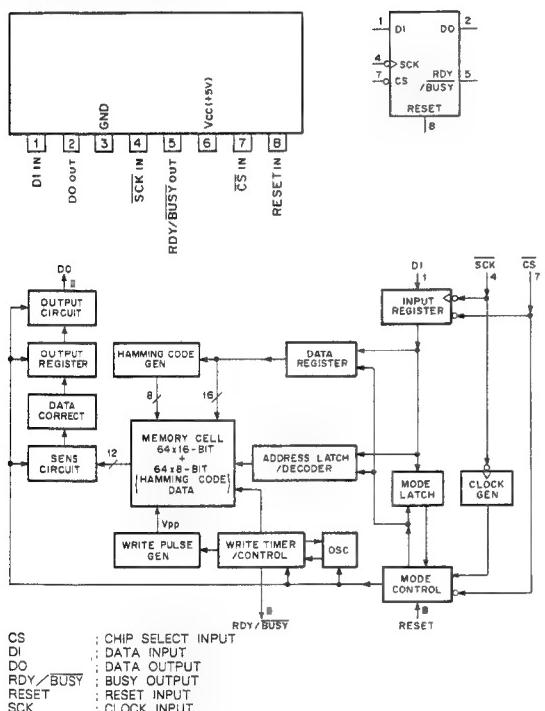
LM35DZ (NS)
BIPOLE TEMPERATURE SENSOR



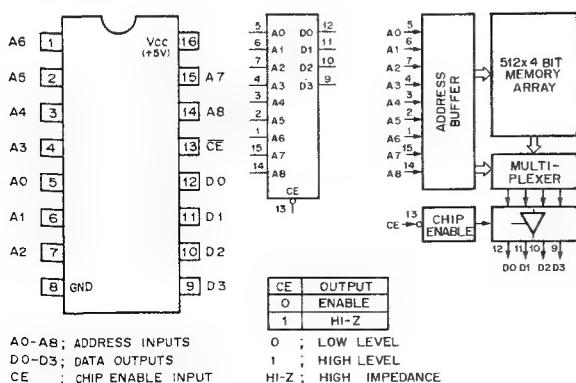
M5236ML (MITSUBISHI)
ADJUSTABLE VOLTAGE REGULATOR



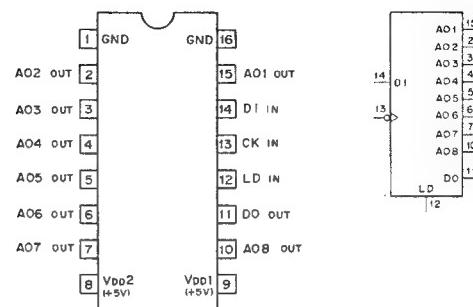
M6M80011L (MITSUBISHI)
1k (64x16)-BIT ERASABLE PROM
- SIDE VIEW -



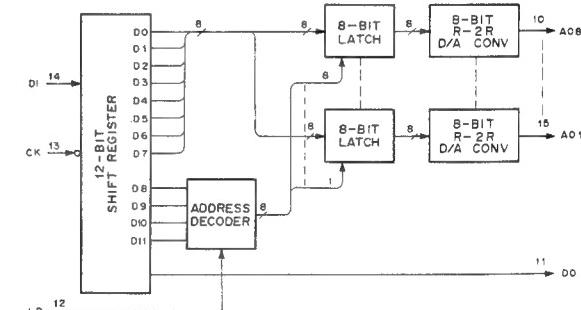
MB7116H (FUJITSU)
2K (512x4)-BIT PROM WITH 3-STATE OUTPUTS
— TOP VIEW —



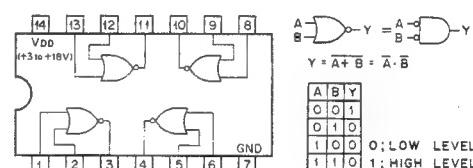
MB88342PF (FUJITSU) FLAT PACKAGE
C-MOS 8-BIT D/A CONVERTER
- TOP VIEW -



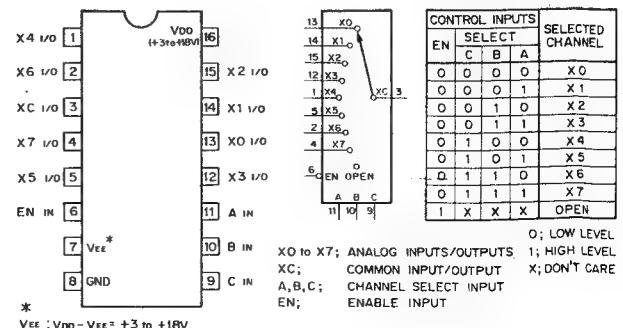
A01 - A08 : 8-BIT D/A OUTPUTS
 CK : CLOCK INPUT
 DI : SERIAL DATA INPUT
 DO : DATA OUTPUT
 LD : DATA LOAD CONTROL INPUT (H : LOAD)



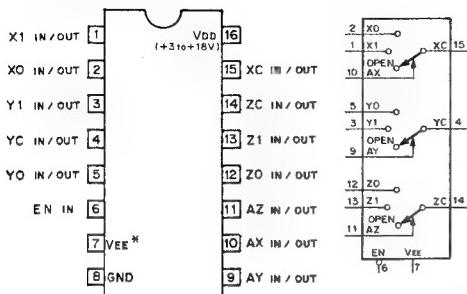
MC14001BF (MOTOROLA) FLAT PACKAGE
C-MOS 2-INPUT NOR GATE
— TOP VIEW —



MC14051BF (MOTOROLA) FLAT PACKAGE
C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER
- TOP VIEW -

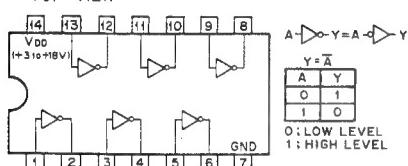
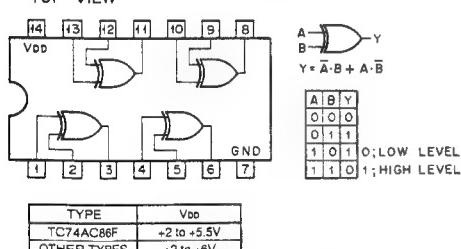
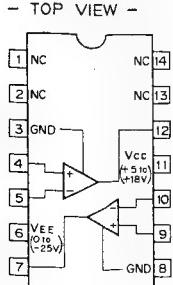


MC14053BF (MOTOROLA) FLAT PACKAGE
C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULITPLEXER
- TOP VIEW -

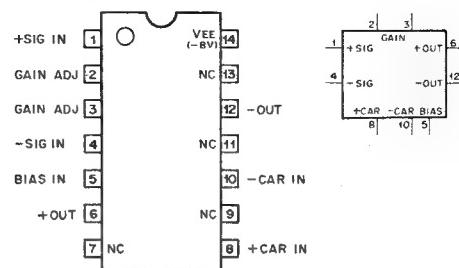


CONT. INPUTS	ON CHANNEL
0; LOW LEVEL	0
1; HIGH LEVEL	1
X; DONT CARE.	OPEN

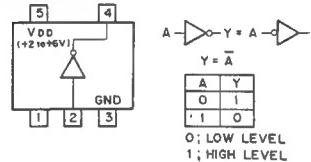
MC14069UBF (MOTOROLA)

C-MOS INVERTER
- TOP VIEW -MC74HC86F (MOTOROLA) FLAT PACKAGE
SN74HC86NS (TI) FLAT PACKAGEC-MOS EXCLUSIVE OR GATE
- TOP VIEW -NJM319M (JRC) FLAT PACKAGE
DUAL VOLTAGE COMPARATOR
- TOP VIEW -

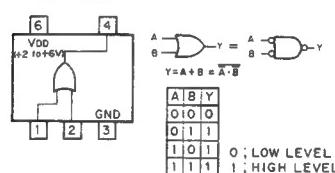
RC1496M (RAYTHEON) FLAT PACKAGE
BALANCED MODULATOR/DEMODULATOR
- TOP VIEW -



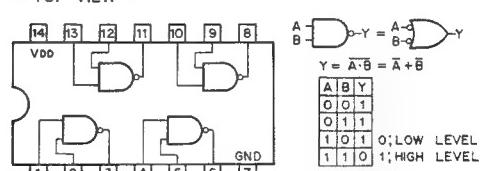
SC7S04F (MOTOROLA) FLAT PACKAGE
TC7S04F (TOSHIBA) FLAT PACKAGE

C-MOS INVERTER
- TOP VIEW -

SC7S32F (MOTOROLA) FLAT PACKAGE
TC7S32F (TOSHIBA) FLAT PACKAGE

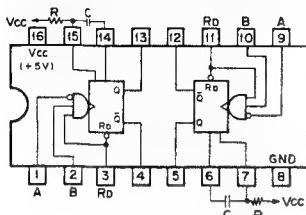
C-MOS 2-INPUT OR GATE
- TOP VIEW -

SN74HCO0NS (TI) FLAT PACKAGE
C-MOS QUAD 2-INPUT NAND GATE
- TOP VIEW -



TYPE	V _{DD}
TC74AC00P	+2 to +5.5V
TC74AC00F	+2 to +5.5V
MC74HCT00N	+5V
74ACT00PC	+5V
OTHER TYPES	+2 to +6V

SN74LS123NS (TI) FLAT PACKAGE
TTL RETRIGGERABLE MONOSTABLE
MULTIVIBRATOR WITH DIRECT RESET
- TOP VIEW -

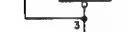
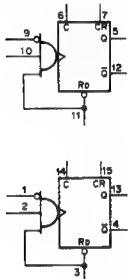


INPUTS	OUTPUTS
RD A B	Q
0 X X	0 1
X 1 X	0 1
X X 0	0 1
1 0 1	1 1
1 1 1	1 1
1 0 1	1 1

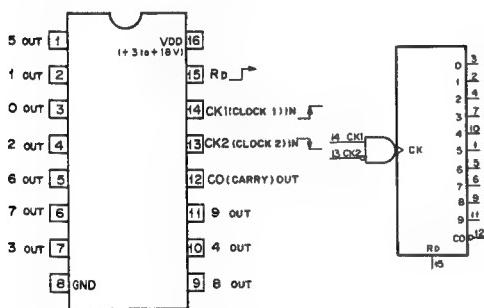
O; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

OUTPUT PULSE WIDTH

$$\begin{aligned} &V_{CC} \text{ } C = R \text{ } '123; \text{ } T_w = 0.28 \left(1 + \frac{700}{R}\right) \text{ CR} \\ &V_{CC} \text{ } C = R \text{ } 'L123; \text{ } T_w = 0.35 \left(1 + \frac{700}{R}\right) \text{ CR} \\ &V_{CC} \text{ } C = R \text{ } '123; \text{ } T_w = 0.25 \left(1 + \frac{700}{R}\right) \text{ CR} \\ &V_{CC} \text{ } C = R \text{ } 'L123; \text{ } T_w = 0.29 \left(1 + \frac{700}{R}\right) \text{ CR} \\ &V_{CC} \text{ } C = R \text{ } 'LS123; \text{ } T_w = 0.45 \text{ CR} \end{aligned}$$



TC4017BF (TOSHIBA) FLAT PACKAGE
C-MOS DECADE COUNTER/DIVIDER
- TOP VIEW -



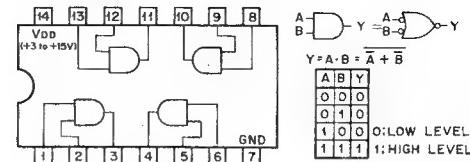
COUNT	INPUTS		OUTPUTS										
	RD	CLOCK	9	8	7	6	5	4	3	2	1	0	CO
0	1	X	0	0	0	0	0	0	0	0	1	1	
0	0	-	0	0	0	0	0	0	0	0	1	0	
1	0	-	0	0	0	0	0	0	0	1	0	1	
2	0	-	0	0	0	0	0	0	1	0	0	1	
3	0	-	0	0	0	0	0	1	0	0	0	1	
4	0	-	0	0	0	0	0	1	0	0	0	1	
5	0	-	0	0	0	0	1	0	0	0	0	0	
6	0	-	0	0	0	1	0	0	0	0	0	0	
7	0	-	0	0	1	0	0	0	0	0	0	0	
8	0	-	0	1	0	0	0	0	0	0	0	0	
9	0	-	1	0	0	0	0	0	0	0	0	0	
NO COUNT	0	1	-	-	-	-	-	-	-	-	-	-	NO CHANGE
	0	0	-	-	-	-	-	-	-	-	-	-	

O; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

TC4081BF (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT AND GATE

- TOP VIEW -



$$Y = A \cdot B = \overline{\overline{A}} + \overline{\overline{B}}$$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

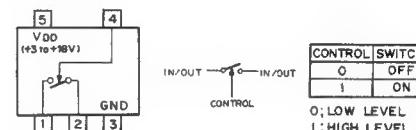
0; LOW LEVEL

1; HIGH LEVEL

TC4S66F (TOSHIBA)

C-MOS BILATERAL ANALOG SWITCH

- TOP VIEW -



CONTROL	SWITCH
0	OFF
1	ON

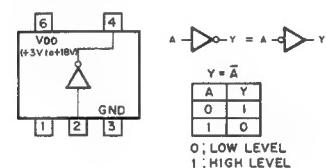
0; LOW LEVEL

1; HIGH LEVEL

TC4SU69F (TOSHIBA) FLAT PACKAGE

C-MOS INVERTER BUFFER

- TOP VIEW -



$$Y = \overline{A}$$

A	Y
0	1
1	0

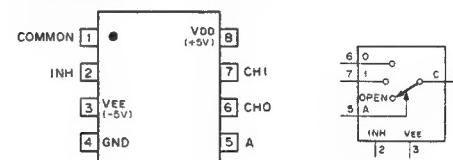
0; LOW LEVEL

1; HIGH LEVEL

TC4W53F (TOSHIBA) FLAT PACKAGE

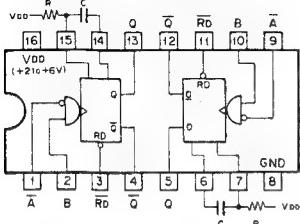
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER

- TOP VIEW -



CONT. INPUT	ON CHANNEL
INH	0
A	1
INH VEE	OPEN

TC74HC123AF (TOSHIBA) FLAT PACKAGE

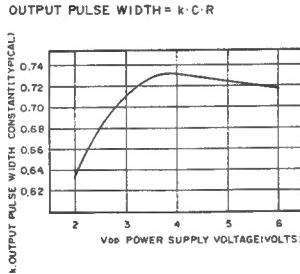
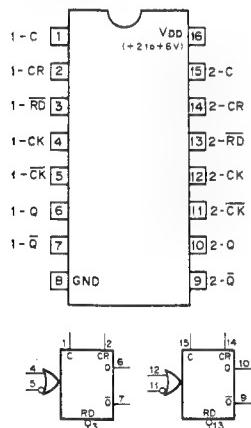
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
- TOP VIEW -

INPUT	OUTPUT
RD A B Q Q-bar	0 X X 0 1
1 1 X 0 1	1 X 0 0 1
1 X 0 0 1	1 0 1 1 1
1 0 1 1 1	1 0 1 1 1
1 0 1 1 1	1 0 1 1 1

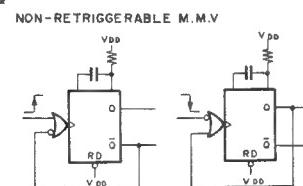
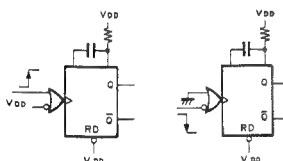
O : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE

OUTPUT PULSE WIDTH = 0.46CR

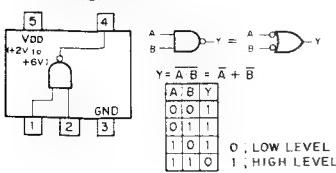
TC74HC4538AF (TOSHIBA) FLAT PACKAGE

C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE
MULTIVIBRATOR
- TOP VIEW -

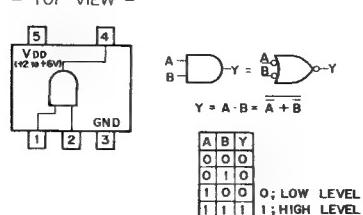
RETRIGGERABLE M.M.V



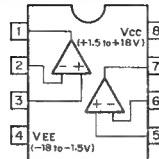
TC7S00F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT NAND GATE
- TOP VIEW -

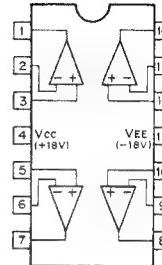
TC7S08F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT AND GATE
- TOP VIEW -

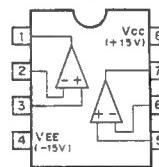
TL062CPS (TI) FLAT PACKAGE

OPERATIONAL AMPLIFIER
(JFET INPUT)
- TOP VIEW -

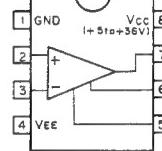
TL064CNS (TI) FLAT PACKAGE

OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -

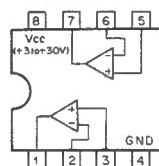
TL082CPS (TI) FLAT PACKAGE

OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -

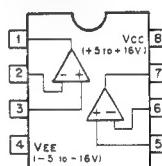
uPC311G2 (NEC) FLAT PACKAGE

VOLTAGE COMPARATOR
- TOP VIEW -

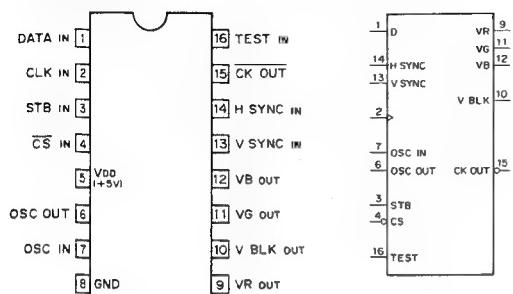
uPC358G2 (NEC) FLAT PACKAGE

DUAL OPERATIONAL AMPLIFIERS
- TOP VIEW -

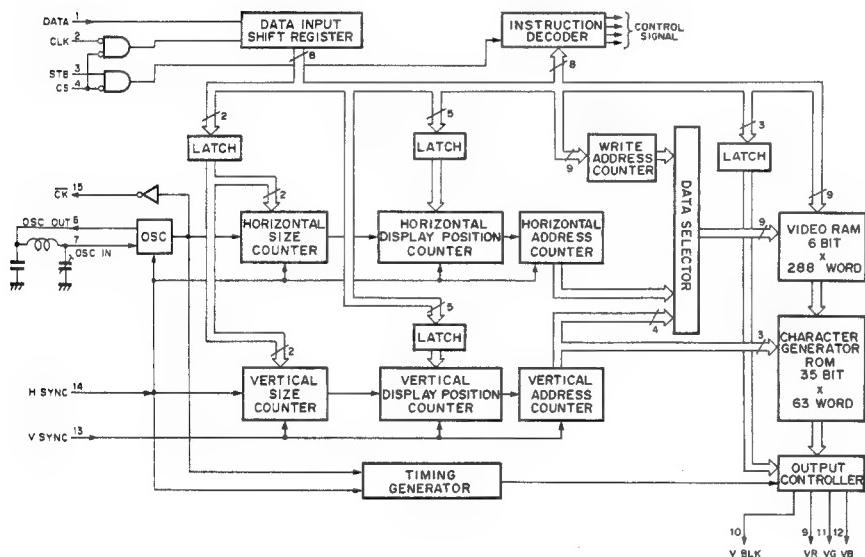
uPC812G2 (NEC) FLAT PACKAGE

OPERATIONAL AMPLIFIER (JFET INPUT)
- TOP VIEW -

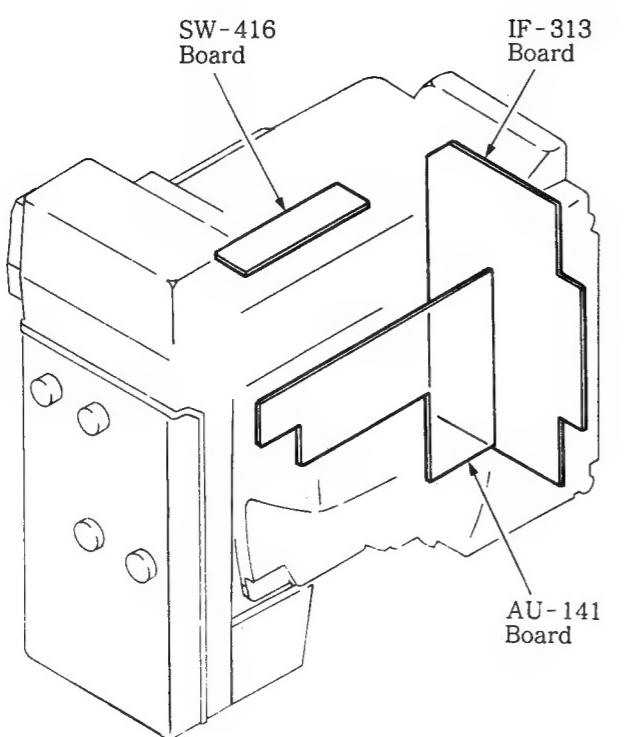
uPD6142G-101 (NEC) FLAT PACKAGE
C-MOS 8-BIT SERIAL INPUT CHARACTER DISPLAY
- TOP VIEW -



D: DATA INPUT
 CK OUT: EQUAL TO OUTPUT OF OSC OUT
 CLK: CLOCK INPUT
 CS: CHIP SELECT INPUT
 H SYNC: H SYNC INPUT
 OSC IN, OUT: EXTERNAL TERMINAL FOR OSC
 STB: STROBE INPUT
 TEST: TEST CLOCK INPUT
 VB: BLUE CHARACTER DATA OUTPUT
 V BLK: V BLANKING OUTPUT
 VG: GREEN CHARACTER DATA OUTPUT
 VR: RED CHARACTER DATA OUTPUT
 V SYNC: V SYNC INPUT



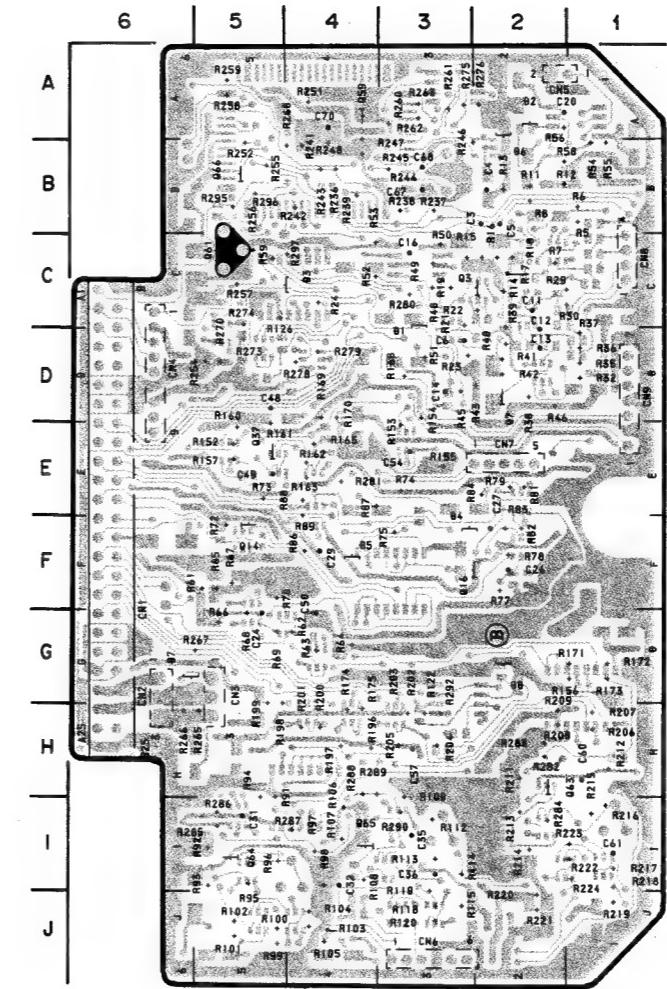
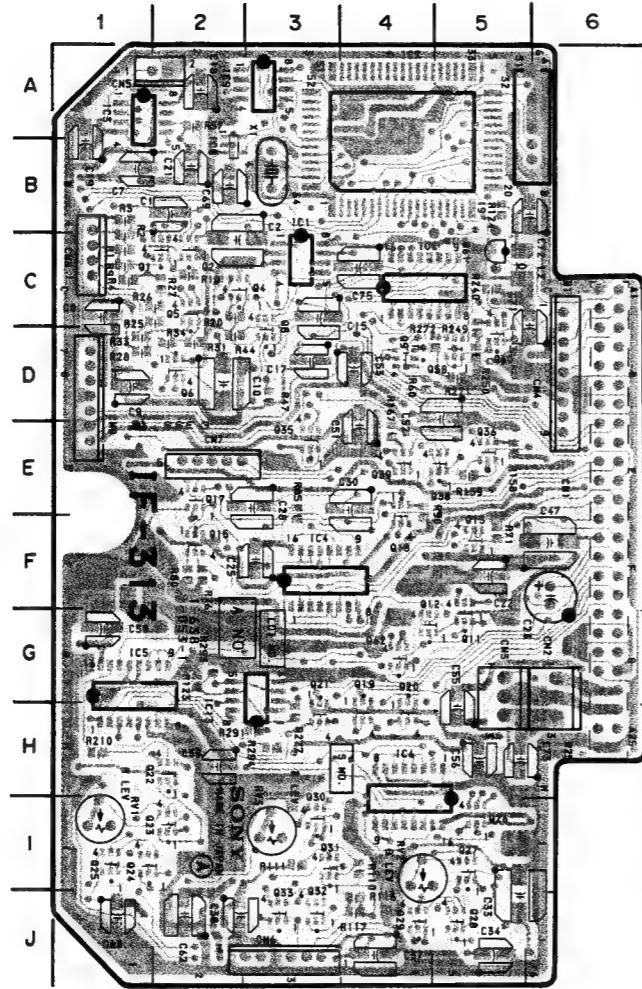
SECTION C
SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS



IF-313 BOARD

IF-313(1-638-053-11)

CN1	G-6	Q17	E-2
CN2	G-6	Q18	F-4
CN3	G-5	Q19	G-4
CN4	D-6	Q20	G-4
CN5	A-1	Q21	G-3
CN6	J-3	Q22	H-1
CN7	E-2	Q23	I-1
CN8	C-1	Q24	I-1
CN9	E-1	Q25	I-1
D1	D-3	Q26	I-5
D2	A-2	Q27	I-5
D3	C-4	Q28	J-5
D4	F-3	Q29	J-4
D5	F-4	Q30	I-3
D6	B-2	Q31	I-3
D7	G-6	Q32	J-3
D8	G-2	Q33	J-3
		Q35	E-3
		Q36	E-5
IC1	B-3	Q37	E-5
IC2	C-4	Q38	E-5
IC3	A-1	Q39	E-4
IC4	F-3	Q58	D-5
IC5	G-1	Q59	A-4
IC6	H-4	Q60	D-5
IC7	A-4	Q61	C-5
IC8	B-2	Q62	G-4
IC9	A-2	Q63	H-1
IC13	G-2	Q64	I-5
L2	C-6	Q65	I-4
		Q66	B-5
Q1	C-1	RV1	I-1
Q2	C-2	RV2	I-4
Q3	C-3	RV3	I-3
Q4	C-3		
Q5	C-2	S1	A-5
Q6	D-2		
Q7	D-2	X1	A-3
Q8	C-3		
Q9	D-4		
Q11	G-5		
Q12	F-4		
Q13	F-5		
Q14	F-5		
Q15	F-2		
Q16	F-3		



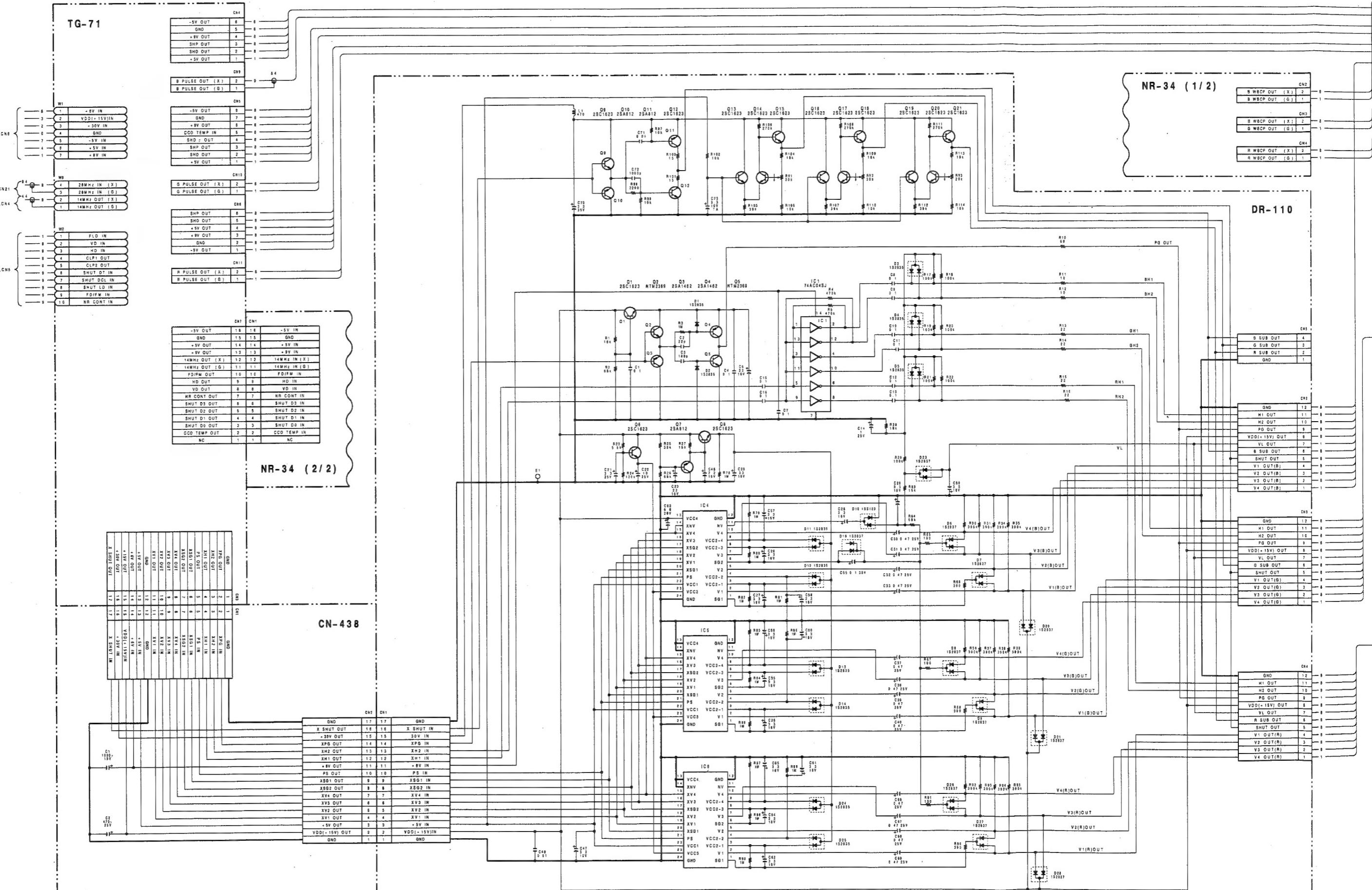
1-638-053-11 SOLDERING SIDE

IF-313(1-638-053-11)

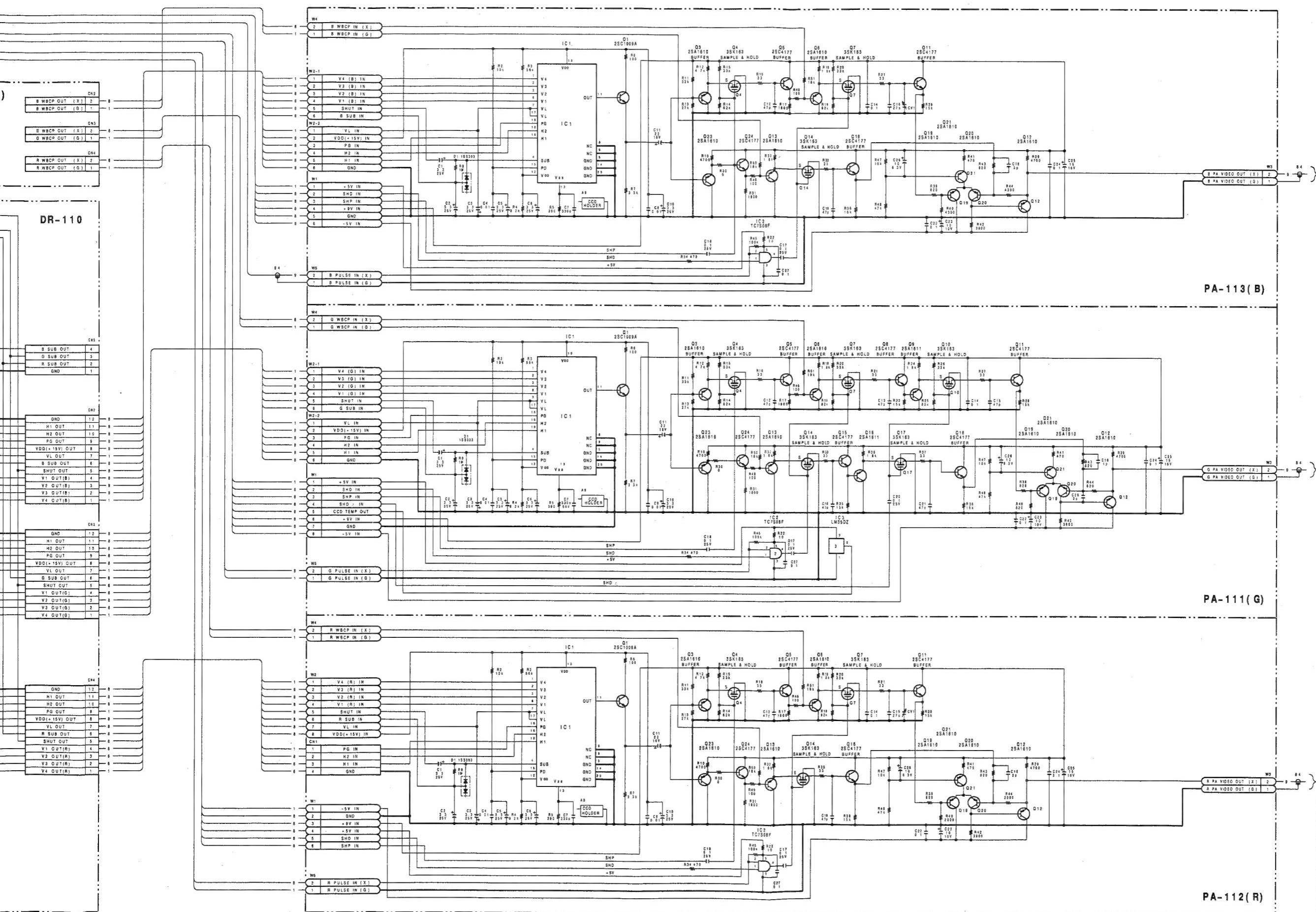
CN1	G-6	Q17	E-2
CN2	G-6	Q18	F-4
CN3	G-5	Q19	G-4
CN4	D-6	Q20	G-4
CN5	A-1	Q21	G-3
CN6	J-3	Q22	H-1
CN7	E-2	Q23	I-1
CN8	C-1	Q24	I-1
CN9	E-1	Q25	I-1
D1	D-3	Q26	I-5
D2	A-2	Q27	I-5
D3	C-4	Q28	J-5
D4	F-3	Q29	J-4
D5	F-4	Q30	I-3
D6	B-2	Q31	I-3
D7	G-6	Q32	J-3
D8	G-2	Q33	J-3
		Q35	E-3
		Q36	E-5
IC1	B-3	Q37	E-5
IC2	C-4	Q38	E-5
IC3	A-1	Q39	E-4
IC4	F-3	Q58	D-5
IC5	G-1	Q59	A-4
IC6	H-4	Q60	D-5
IC7	A-4	Q61	C-5
IC8	B-2	Q62	G-4
IC9	A-2	Q63	H-1
IC13	G-2	Q64	I-5
L2	C-6	Q65	I-4
		Q66	B-5
Q1	C-1	RV1	I-1
Q2	C-2	RV2	I-4
Q3	C-3	RV3	I-3
Q4	C-3		
Q5	C-2	S1	A-5
Q6	D-2		
Q7	D-2	X1	A-3
Q8	C-3		
Q9	D-4		
Q11	G-5		
Q12	F-4		
Q13	F-5		
Q14	F-5		
Q15	F-2		
Q16	F-3		

CCD BLOCK

TG-71 BOARD
PA-111 BOARD
PA-112 BOARD
PA-113 BOARD
NR-34 BOARD
DR-110 BOARD
CN-438 BOARD



DXC-537 (J, U C)
DXC-537P (E K)



PR-143(1-6)

CN1 E-4
CN2 H-5
CN3 C-5

D1 H-1
D2 G-1
D3 B-5

DL1 E-2
DL2 E-3
DL3 E-1

E1 D-4

FL1 I-3
FL2 I-4
FL3 I-2

IC1 I-3
IC2 B-2
IC3 C-3
IC4 I-4
IC5 B-3
IC6 C-4
IC7 I-2
IC8 B-1
IC9 C-2
IC10 I-1
IC11 H-5
IC12 H-4
IC13 A-1
IC14 B-1
IC16 D-5
IC17 C-5

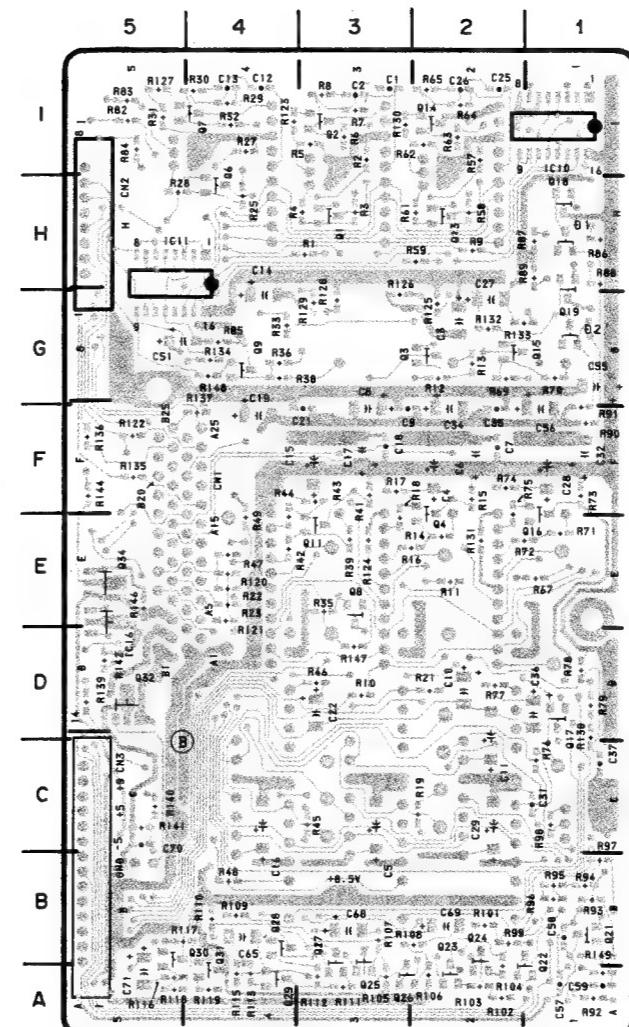
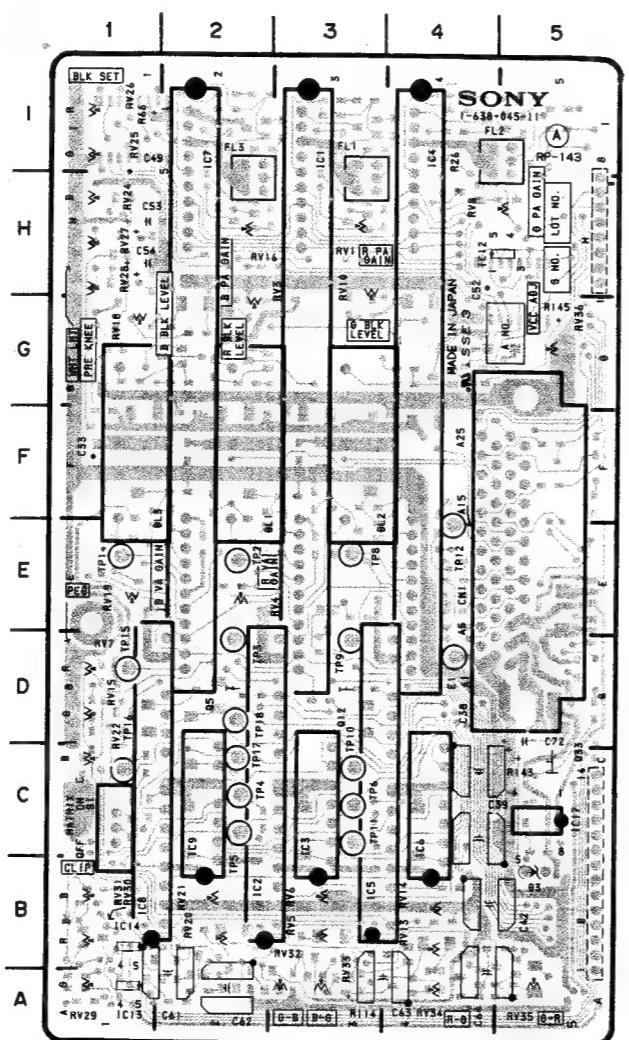
Q1 H-3
Q2 I-3
Q3 G-3
Q4 E-2
Q5 D-2
Q6 H-4
Q7 I-4
Q8 E-3
Q9 G-4
Q11 E-3
Q12 D-3
Q13 H-2

PR-143 BOARD

S/N J ; 30001 through 30040
UC; 10001 through 10060
EK; 40001 through 40050

PR-143(1-638-045-11)

CN1	E-4	Q14	I-2
CN2	H-5	Q15	G-1
CN3	C-5	Q16	E-1
		Q17	D-1
D1	H-1	Q18	H-1
D2	G-1	Q19	G-1
D3	B-5	Q21	B-1
		Q22	B-1
DL1	E-2	Q23	B-2
DL2	E-3	Q24	B-2
DL3	E-1	Q25	A-3
		Q26	A-3
E1	D-4	Q27	B-3
		Q28	B-4
FL1	I-3	Q29	A-4
FL2	I-4	Q30	B-4
FL3	I-2	Q31	B-4
		Q32	D-5
IC1	I-3	Q33	C-5
IC2	B-2	Q34	E-5
IC3	C-3		
IC4	I-4	RV1	H-3
IC5	B-3	RV3	G-2
IC6	C-4	RV4	E-2
IC7	I-2	RV5	B-3
IC8	B-1	RV6	B-3
IC9	C-2	RV7	D-1
IC10	I-1	RV8	H-4
IC11	H-5	RV10	H-3
IC12	H-4	RV13	B-4
IC13	A-1	RV14	B-4
IC14	B-1	RV15	D-1
IC16	D-5	RB16	H-2
IC17	C-5	RV18	G-1
		RV19	E-1
Q1	H-3	RV20	B-2
Q2	I-3	RV21	B-2
Q3	G-3	RV22	D-1
Q4	E-2	RV24	H-1
Q5	D-2	RV25	I-1
Q6	H-4	RV26	I-1
Q7	I-4	RV27	H-1
Q8	E-3	RV28	H-1
Q9	G-4	RV29	A-1
Q11	E-3	RV30	B-1
Q12	D-3	RV31	B-1
Q13	H-2	RV32	B-3
		RV33	A-3



1-638-045-11 SOLDERING SIDE

PR-143(1-638-045-11)

CN1	E-4	Q14	I-2
CN2	H-5	Q15	G-1
CN3	C-5	Q16	E-1
		Q17	D-1
D1	H-1	Q18	H-1
D2	G-1	Q19	G-1
D3	B-5	Q21	B-1
		Q22	B-1
DL1	E-2	Q23	B-2
DL2	E-3	Q24	B-2
DL3	E-1	Q25	A-3
		Q26	A-3
E1	D-4	Q27	B-3
		Q28	B-4
FL1	I-3	Q29	A-4
FL2	I-4	Q30	B-4
FL3	I-2	Q31	B-4
		Q32	D-5
IC1	I-3	Q33	C-5
IC2	B-2	Q34	E-5
IC3	C-3		
IC4	I-4	RV1	H-3
IC5	B-3	RV3	G-2
IC6	C-4	RV4	E-2
IC7	I-2	RV5	B-3
IC8	B-1	RV6	B-3
IC9	C-2	RV7	D-1
IC10	I-1	RV8	H-4
IC11	H-5	RV10	H-3
IC12	H-4	RV13	B-4
IC13	A-1	RV14	B-4
IC14	B-1	RV15	D-1
IC16	D-5	RB16	H-2
IC17	C-5	RV18	G-1
		RV19	E-1
Q1	H-3	RV20	B-2
Q2	I-3	RV21	B-2
Q3	G-3	RV22	D-1
Q4	E-2	RV24	H-1
Q5	D-2	RV25	I-1
Q6	H-4	RV26	I-1
Q7	I-4	RV27	H-1
Q8	E-3	RV28	H-1
Q9	G-4	RV29	A-1
Q11	E-3	RV30	B-1
Q12	D-3	RV31	B-1
Q13	H-2	RV32	B-3
		RV33	A-3

PR-143

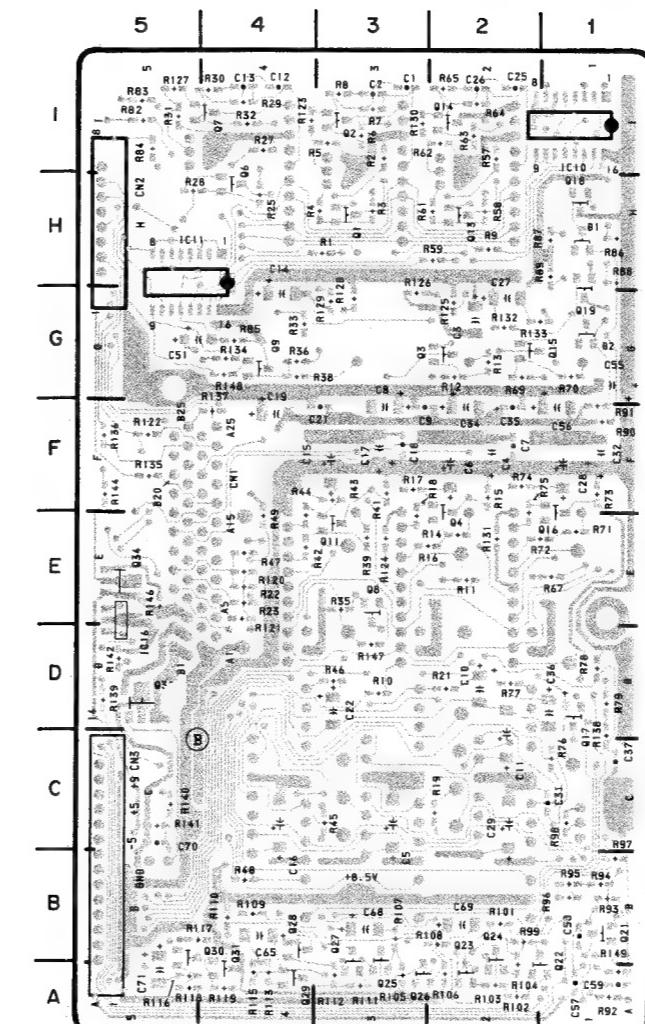
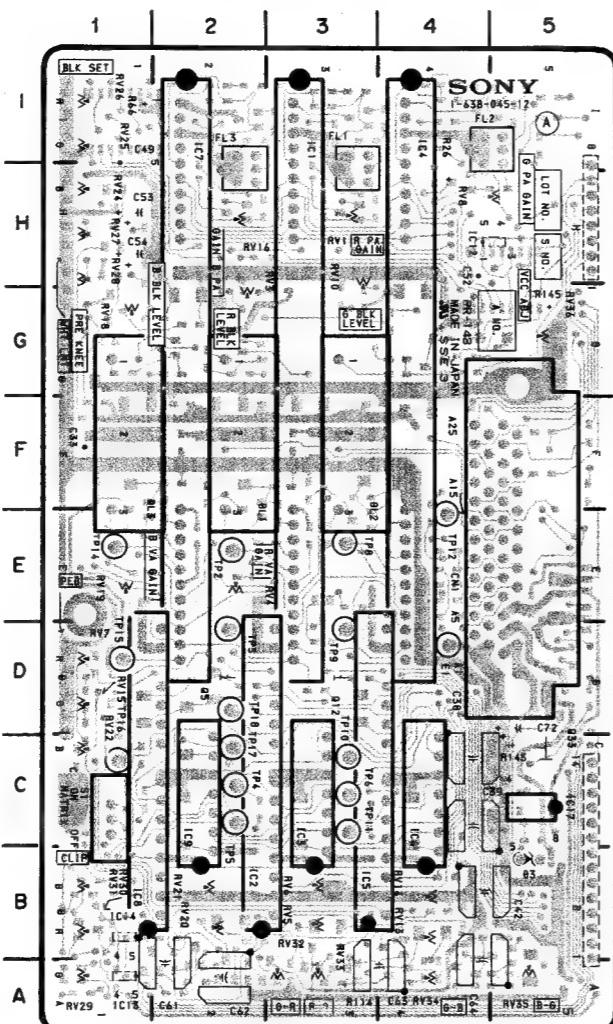
PR-143

PR-143 BOARD

S/N J ; 30041 and higher
UC; 10061 and higher
EK; 40051 and higher

PR-143(1-638-045-12)

CN1	E-4	Q14	I-2
CN2	H-5	Q15	G-1
CN3	C-5	Q16	E-1
		Q17	D-1
D1	H-1	Q18	H-1
D2	G-1	Q19	G-1
D3	B-5	Q21	B-1
		Q22	B-1
DL1	E-2	Q23	B-2
DL2	E-3	Q24	B-2
DL3	E-1	Q25	A-3
E1	D-4	Q26	A-3
		Q27	B-3
FL1	I-3	Q28	B-4
FL2	I-4	Q29	A-4
FL3	I-2	Q30	B-4
		Q31	B-4
		Q32	D-5
IC1	I-3	Q33	C-5
IC2	B-2	Q34	E-5
IC3	C-3		
IC4	I-4	RV1	H-3
IC5	B-3	RV3	G-2
IC6	C-4	RV4	E-2
IC7	I-2	RV5	B-3
IC8	B-1	RV6	B-3
IC9	C-2	RV7	D-1
IC10	I-1	RV8	H-4
IC11	H-5	RV10	H-3
IC12	H-4	RV13	B-4
IC13	A-1	RV14	B-4
IC14	B-1	RV15	D-1
IC16	D-5	RB16	H-2
IC17	C-5	RV18	G-1
		RV19	E-1
Q1	H-3	RV20	B-2
Q2	I-3	RV21	B-2
Q3	G-3	RV22	D-1
Q4	E-2	RV24	H-1
Q5	D-2	RV25	I-1
Q6	H-4	RV26	I-1
Q7	I-4	RV27	H-1
Q8	E-3	RV28	H-1
Q9	G-4	RV29	A-1
Q11	E-3	RV30	B-1
Q12	D-3	RV31	B-1
Q13	H-2	RV32	B-3
		RV33	A-3



PR-143(1-638-045-12)

CN1	E-4	Q14	I-2
CN2	H-5	Q15	G-1
CN3	C-5	Q16	E-1
		Q17	D-1
D1	H-1	Q18	H-1
D2	G-1	Q19	G-1
D3	B-5	Q21	B-1
		Q22	B-1
DL1	E-2	Q23	B-2
DL2	E-3	Q24	B-2
DL3	E-1	Q25	A-3
E1	D-4	Q26	A-3
		Q27	B-3
FL1	I-3	Q28	B-4
FL2	I-4	Q29	A-4
FL3	I-2	Q30	B-4
		Q31	B-4
		Q32	D-5
IC1	I-3	Q33	C-5
IC2	B-2	Q34	E-5
IC3	C-3		
IC4	I-4	RV1	H-3
IC5	B-3	RV3	G-2
IC6	C-4	RV4	E-2
IC7	I-2	RV5	B-3
IC8	B-1	RV6	B-3
IC9	C-2	RV7	D-1
IC10	I-1	RV8	H-4
IC11	H-5	RV10	H-3
IC12	H-4	RV13	B-4
IC13	A-1	RV14	B-4
IC14	B-1	RV15	D-1
IC16	D-5	RB16	H-2
IC17	C-5	RV18	G-1
		RV19	E-1
Q1	H-3	RV20	B-2
Q2	I-3	RV21	B-2
Q3	G-3	RV22	D-1
Q4	E-2	RV24	H-1
Q5	D-2	RV25	I-1
Q6	H-4	RV26	I-1
Q7	I-4	RV27	H-1
Q8	E-3	RV28	H-1
Q9	G-4	RV29	A-1
Q11	E-3	RV30	B-1
Q12	D-3	RV31	B-1
Q13	H-2	RV32	B-3
		RV33	A-3

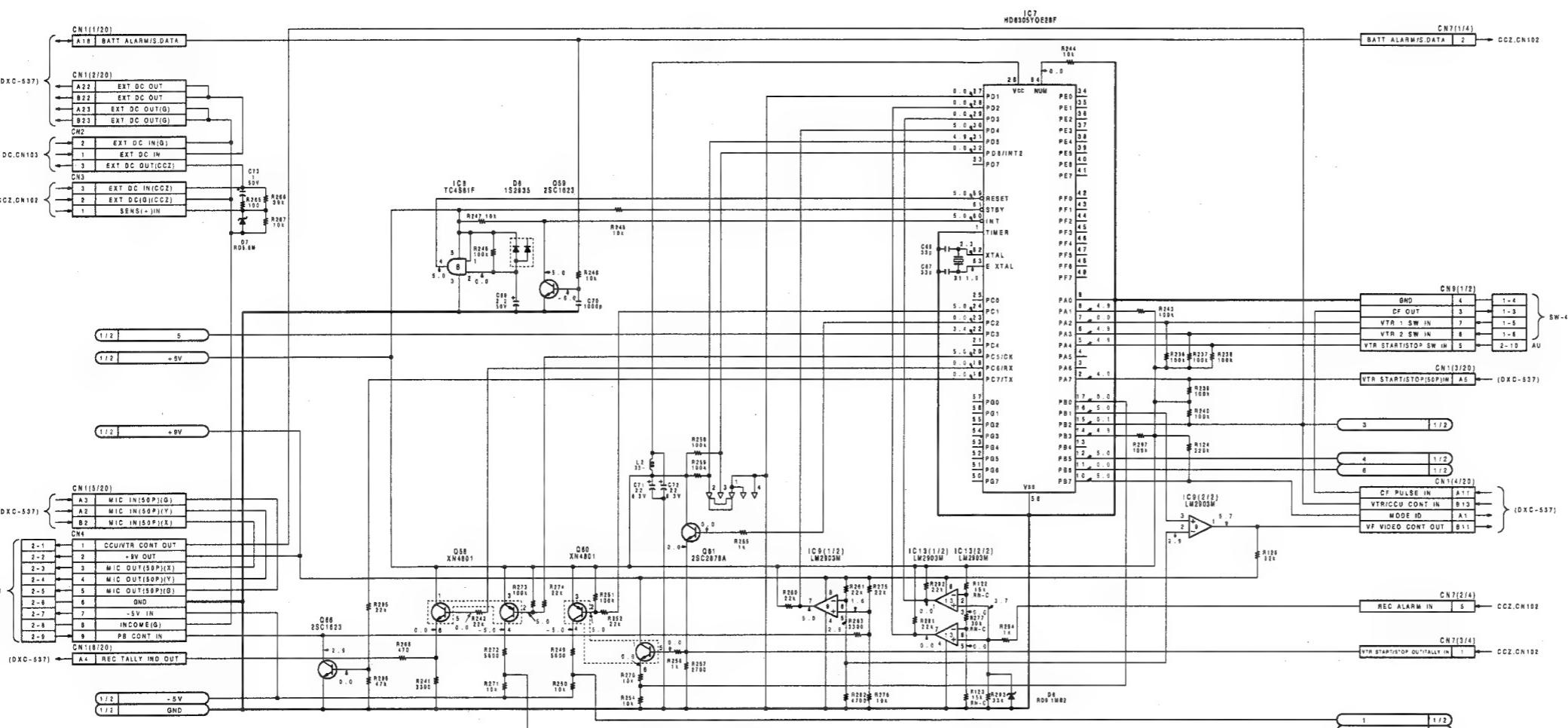
1-638-045-12 SOLDERING SIDE

C-11(b)

C-12(b)

DXC-537 (J / UC)
DXC-537P (E K)

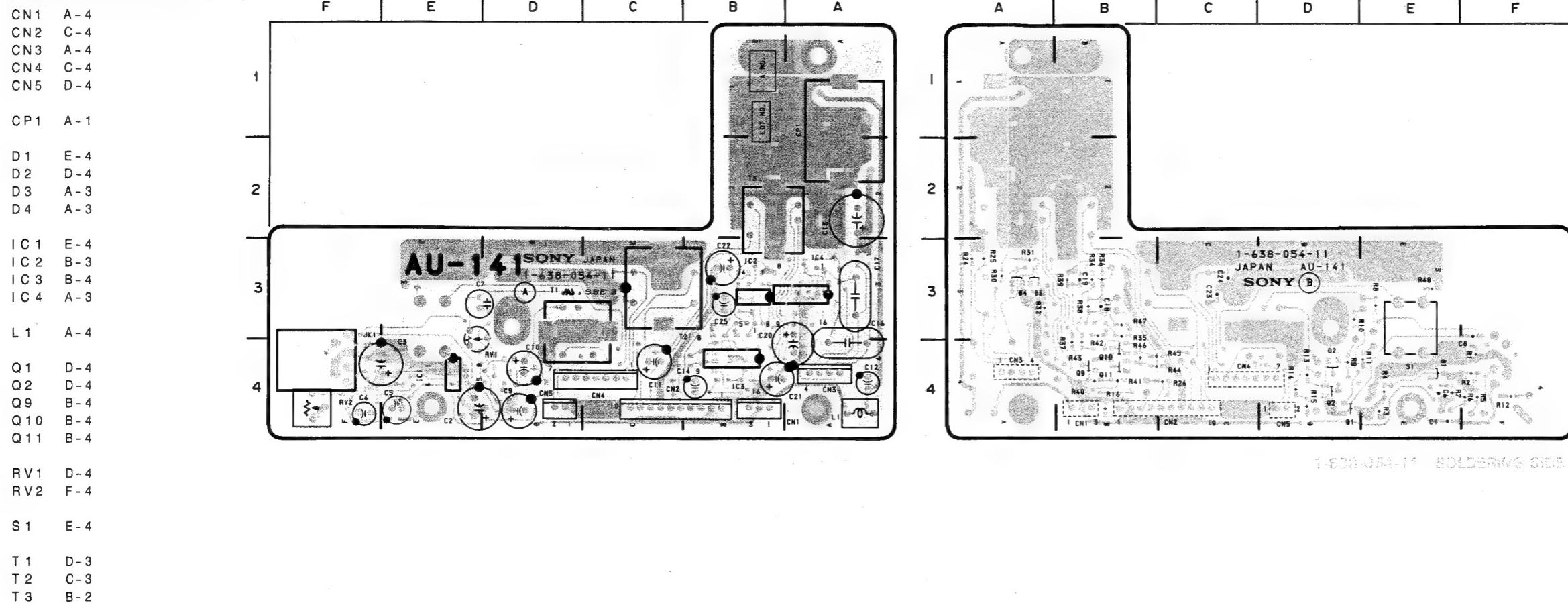
IF-313 BOARD(2/2)



CA-537 (J, U C)
CA-537P(EK)

AU-141 BOARD

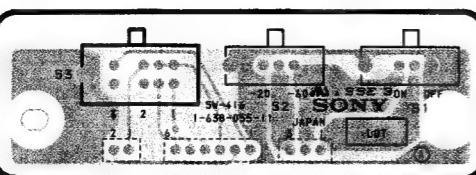
AU-141(1-638-054-11)



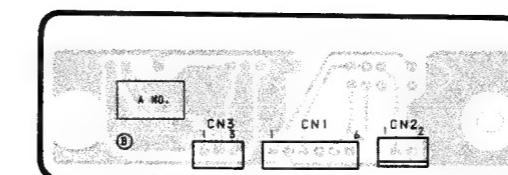
AU-141(1-638-054-11)

CN1	A-4
CN2	C-4
CN3	A-4
CN4	C-4
CN5	D-4
CP1	A-1
D1	E-4
D2	D-4
D3	A-3
D4	A-3
IC1	E-4
IC2	B-3
IC3	B-4
IC4	A-3
L1	A-4
Q1	D-4
Q2	D-4
Q9	B-4
Q10	B-4
Q11	B-4
RV1	D-4
RV2	F-4
S1	E-4
T1	D-3
T2	C-3
T3	B-2

SW-416 BOARD



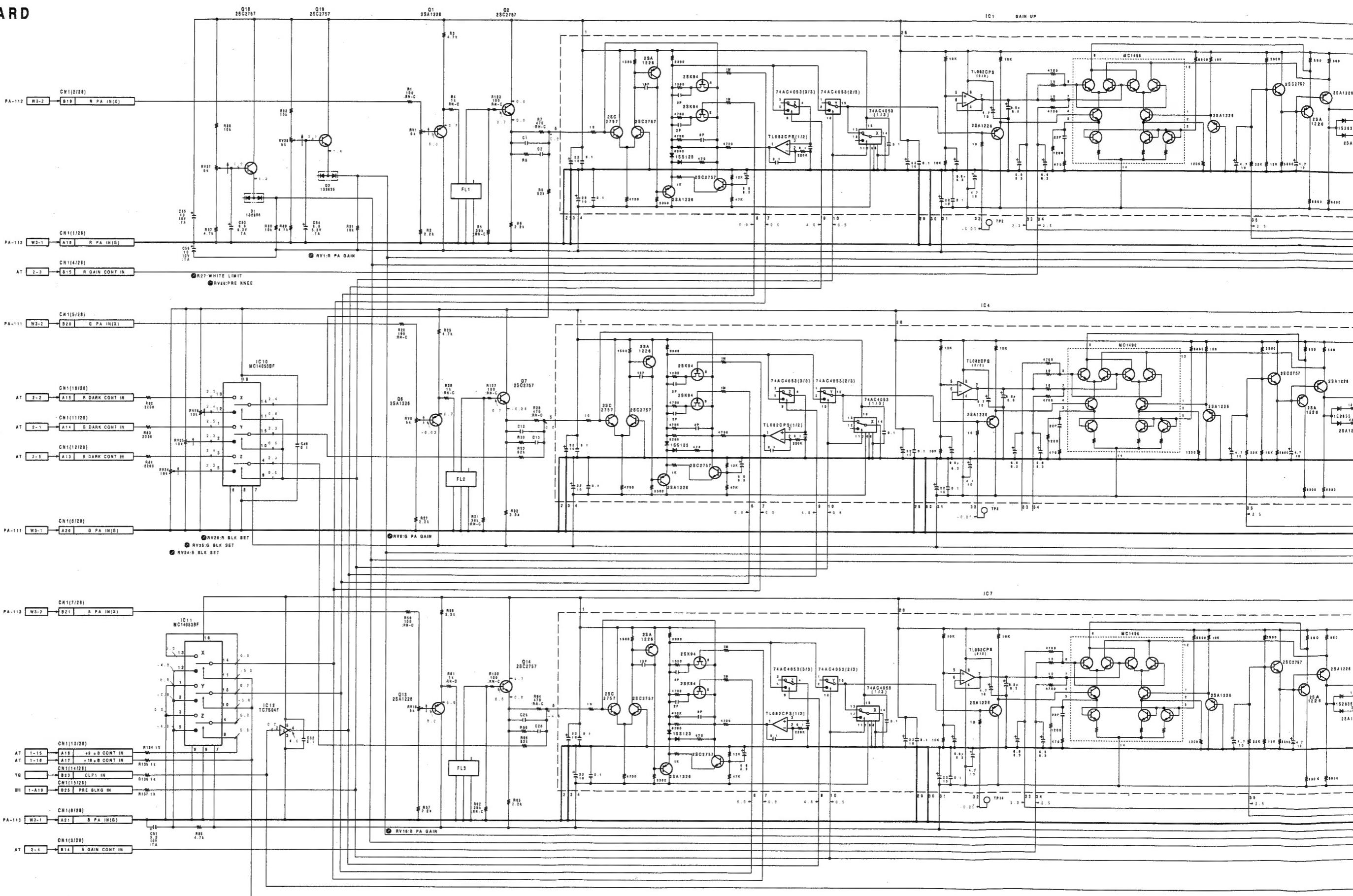
1-638-055-11 READING SIDE



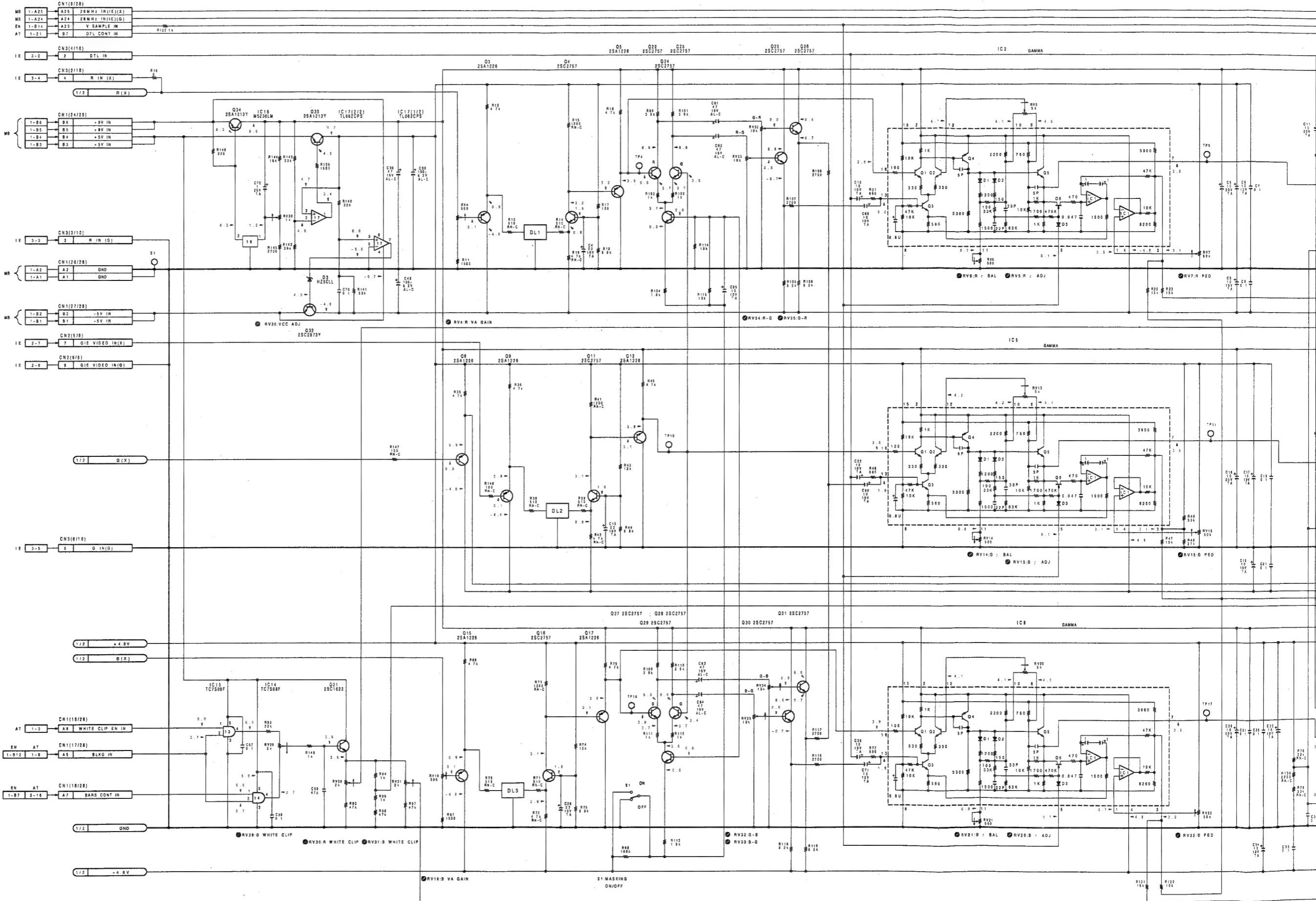
1-638-055-11 SOLDERING SIDE

CA-537 (J, U C)
CA-537P (E K)

PR-143(1/2)BOARD

DXC-537 (J, U C)
DXC-537P (E K)

PR-143(2/2)BOARD



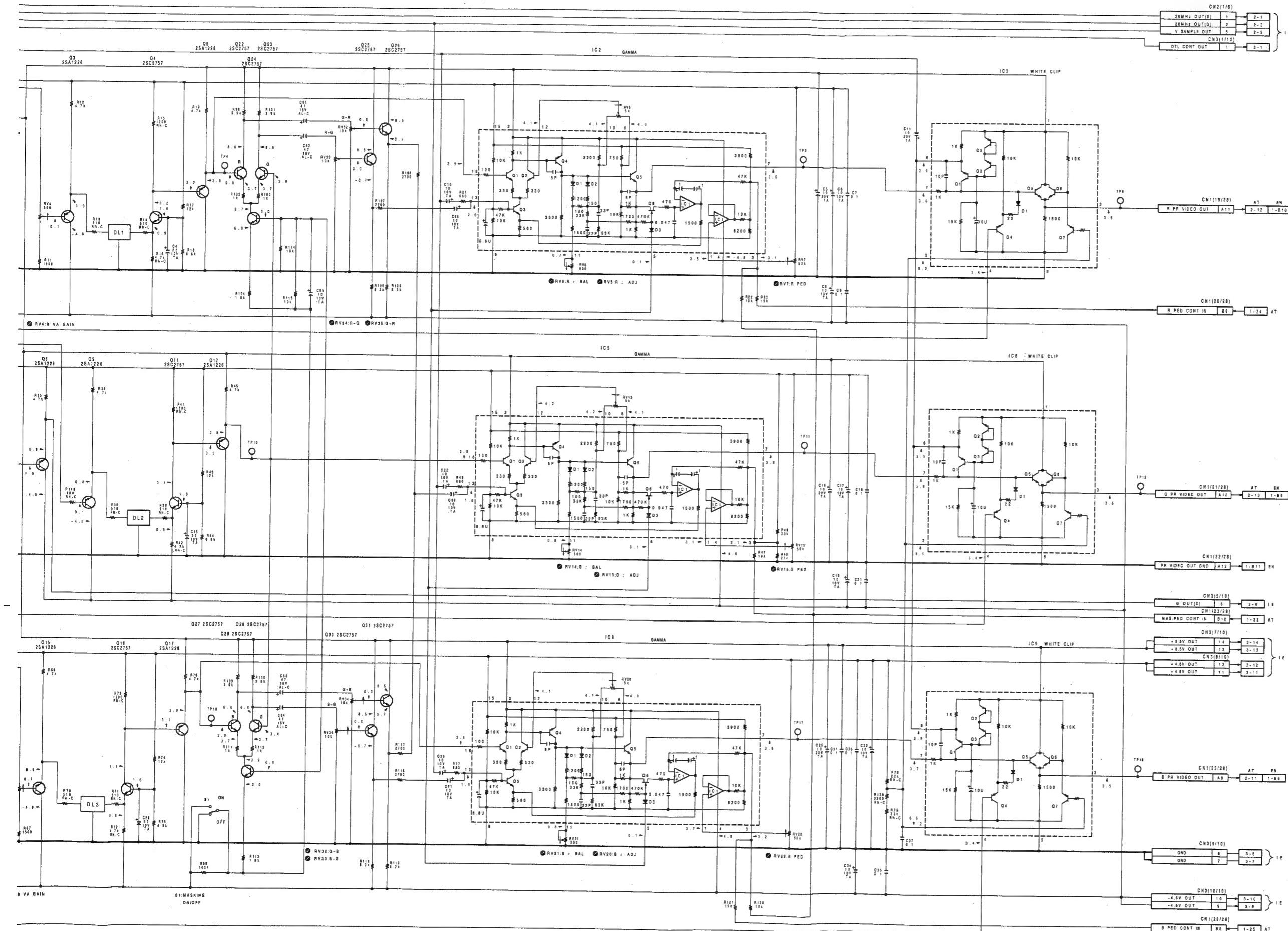
DXC-537 (J, U C)
DXC-537P (E K)

A

B

0

H

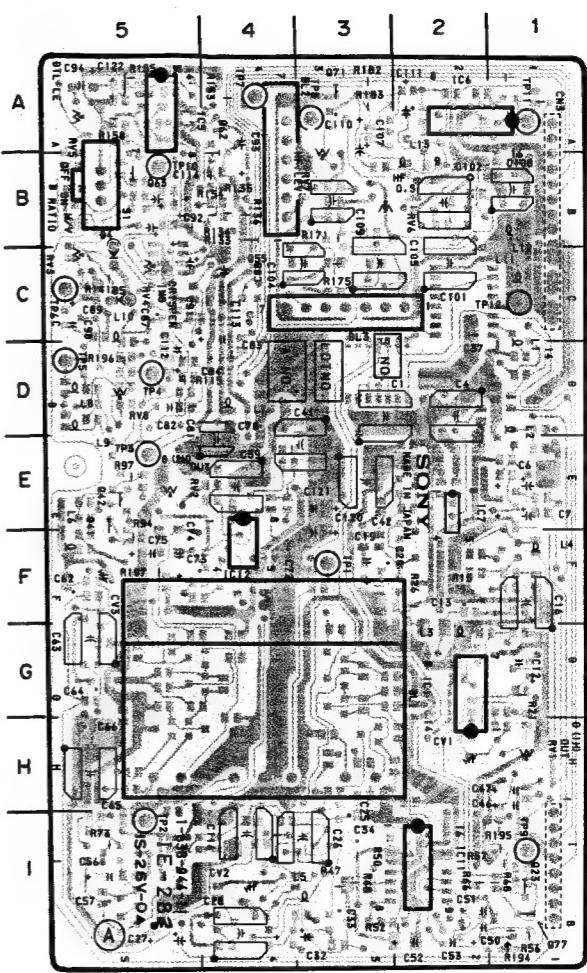


PR-143 BOARD (2/2)
DXC-537 (J,UC)
DXC-537P(EK)

IE-28 BOARD

IE-28(1-638-044-11)

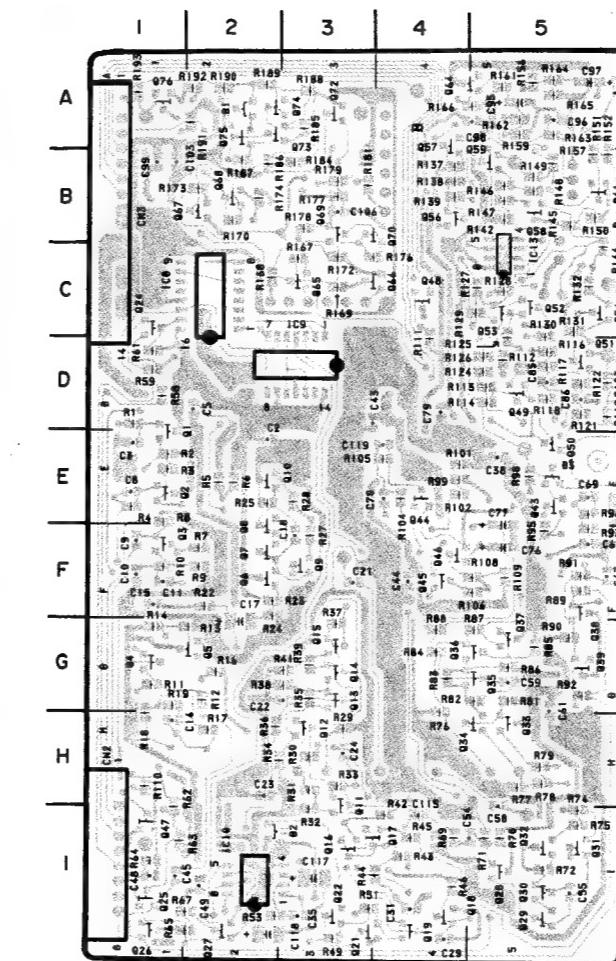
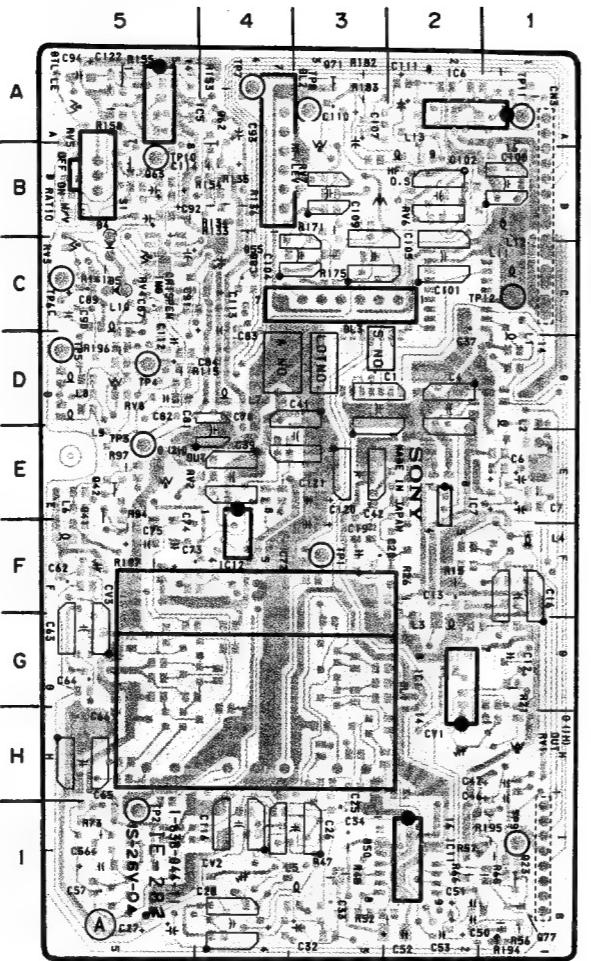
CN2	H-1	Q7	F-2	Q57	B-4
CV1	B-1	Q8	F-2	Q58	B-5
		Q9	F-3	Q59	B-5
CV1	H-2	Q10	E-3	Q61	B-5
CV2	I-4	Q11	I-3	Q62	A-4
CV3	F-5	Q12	H-3	Q63	B-5
		Q13	G-3	Q64	A-4
D1	A-2	Q14	G-3	Q65	C-3
D2	I-3	Q15	G-3	Q66	C-4
D3	E-5	Q16	I-3	Q67	B-1
D4	B-5	Q17	I-4	Q68	B-2
D5	C-5	Q18	I-5	Q69	B-3
		Q19	I-4	Q70	B-4
DL1	G-2	Q21	I-3	Q71	A-3
DL2	A-3	Q22	I-3	Q72	A-3
DL3	C-5	Q23	I-1	Q73	B-3
		Q24	C-1	Q74	A-3
IC1	G-2	Q25	I-1	Q75	A-2
IC5	A-5	Q26	I-1	Q76	A-1
IC6	A-2	Q27	I-2	Q77	I-1
IC7	E-2	Q28	I-5		
IC8	C-1	Q29	I-5	RV1	H-1
IC9	C-3	Q30	I-5	RV2	E-5
IC10	I-2	Q31	I-5	RV3	C-5
IC11	I-2	Q32	I-5	RV4	C-5
IC12	F-4	Q33	H-5	RV5	A-5
IC13	C-5	Q34	H-5	RV6	B-2
		Q35	G-5	RV7	B-3
L1	D-1	Q36	G-4	S1	B-5
L2	D-1	Q37	G-5		
L3	G-2	Q38	G-5	TP1	F-3
L4	F-1	Q39	G-5	TP2	I-5
L5	I-3	Q41	E-5	TP3	E-5
L6	E-5	Q42	E-5	TP4	D-5
L7	D-4	Q43	E-5	TP5	D-5
L8	D-5	Q44	E-4	TP6	C-5
L9	E-5	Q45	F-4	TP7	A-4
L10	C-5	Q46	F-4	TP8	A-3
L11	C-1	Q47	I-1	TP9	I-1
L12	B-1	Q48	C-4	TP10	B-5
L13	A-2	Q49	D-5	TP11	A-1
		Q50	E-5	TP12	C-1
Q1	E-2	Q51	D-5		
Q2	E-2	Q52	C-5		
Q3	F-1	Q53	C-5		
Q4	G-1	Q54	C-5		
Q5	G-2	Q55	C-4		
Q6	F-2	Q56	B-4		



IE-28 BOARD

IE-28(1-638-044-11)

CN2	H-1	Q7	F-2	Q57	B-4
CV1	B-1	Q8	F-2	Q58	B-5
		Q9	F-3	Q59	B-5
CV1	H-2	Q10	E-3	Q61	B-5
CV2	I-4	Q11	I-3	Q62	A-4
CV3	F-5	Q12	H-3	Q63	B-5
		Q13	G-3	Q64	A-4
D1	A-2	Q14	G-3	Q65	C-3
D2	I-3	Q15	G-3	Q66	C-4
D3	E-5	Q16	I-3	Q67	B-1
D4	B-5	Q17	I-4	Q68	B-2
D5	C-5	Q18	I-5	Q69	B-3
		Q19	I-4	Q70	B-4
DL1	G-2	Q21	I-3	Q71	A-3
DL2	A-3	Q22	I-3	Q72	A-3
DL3	C-5	Q23	I-1	Q73	B-3
		Q24	C-1	Q74	A-3
IC1	G-2	Q25	I-1	Q75	A-2
IC5	A-5	Q26	I-1	Q76	A-1
IC6	A-2	Q27	I-2	Q77	I-1
IC7	E-2	Q28	I-5		
IC8	C-1	Q29	I-5	RV1	H-1
IC9	C-3	Q30	I-5	RV2	E-5
IC10	I-2	Q31	I-5	RV3	C-5
IC11	I-2	Q32	I-5	RV4	C-5
IC12	F-4	Q33	H-5	RV5	A-5
IC13	C-5	Q34	H-5	RV6	B-2
		Q35	G-5	RV7	B-3
L1	D-1	Q36	G-4		
L2	D-1	Q37	G-5	S1	B-5
L3	G-2	Q38	G-5		
L4	F-1	Q39	G-5	TP1	F-3
L5	I-3	Q41	E-5	TP2	I-5
L6	E-5	Q42	E-5	TP3	E-5
L7	D-4	Q43	E-5	TP4	D-5
L8	D-5	Q44	E-4	TP5	D-5
L9	E-5	Q45	F-4	TP6	C-5
L10	C-5	Q46	F-4	TP7	A-4
L11	C-1	Q47	I-1	TP8	A-3
L12	B-1	Q48	C-4	TP9	I-1
L13	A-2	Q49	D-5	TP10	B-5
		Q50	E-5	TP11	A-1
Q1	E-2	Q51	D-5	TP12	C-1
Q2	E-2	Q52	C-5		
Q3	F-1	Q53	C-5		
Q4	G-1	Q54	C-5		
Q5	G-2	Q55	C-4		
Q6	F-2	Q56	B-4		



IE-28(1-638-044-11)

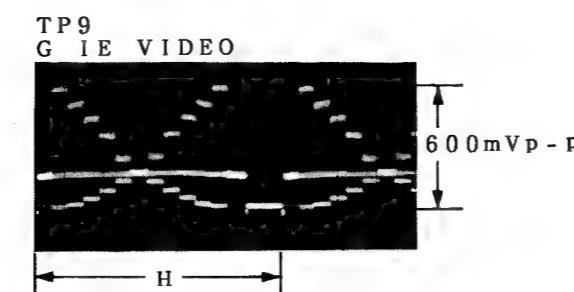
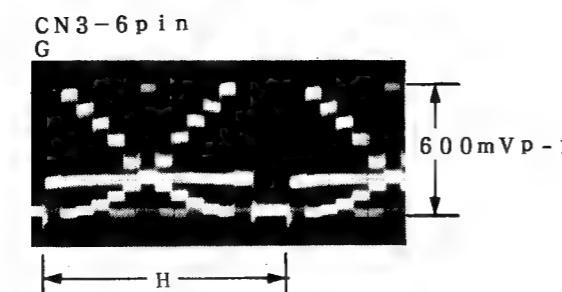
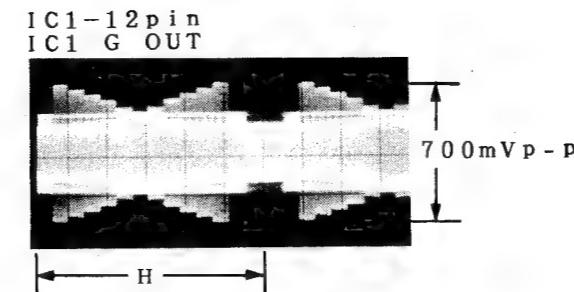
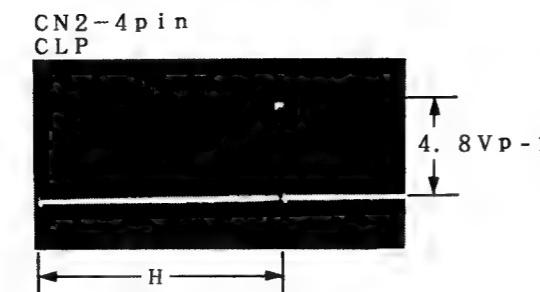
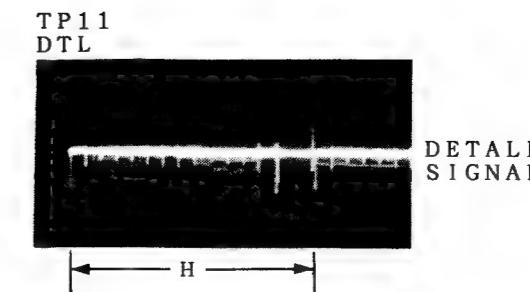
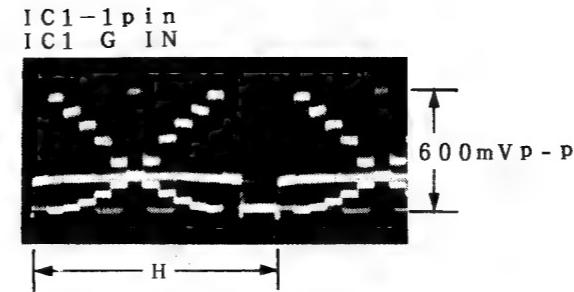
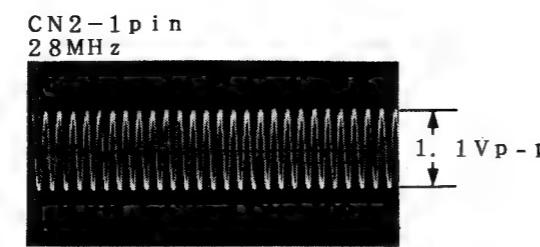
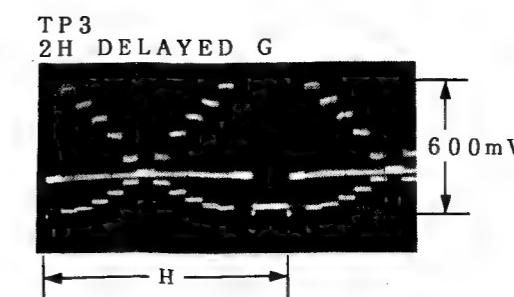
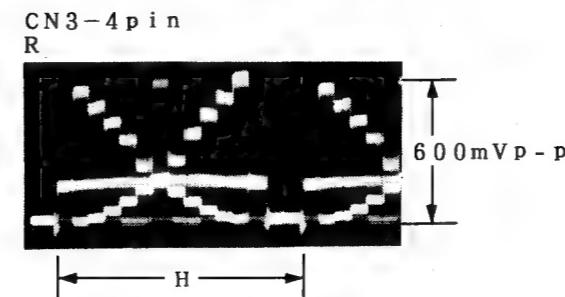
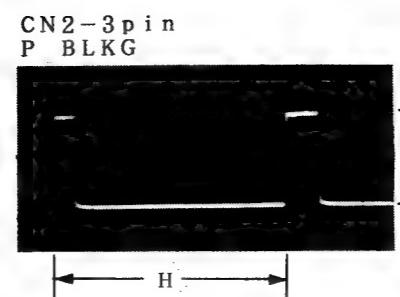
CN2	H-1	Q7	F-2	Q57	B-4
CV1	B-1	Q8	F-2	Q58	B-5
		Q9	F-3	Q59	B-5
CV1	H-2	Q10	E-3	Q61	B-5
CV2	I-4	Q11	I-3	Q62	A-4
CV3	F-5	Q12	H-3	Q63	B-5
		Q13	G-3	Q64	A-4
D1	A-2	Q14	G-3	Q65	C-3
D2	I-3	Q15	G-3	Q66	C-4
D3	E-5	Q16	I-3	Q67	B-1
D4	B-5	Q17	I-4	Q68	B-2
D5	C-5	Q18	I-5	Q69	B-3
		Q19	I-4	Q70	B-4
DL1	G-2	Q21	I-3	Q71	A-3
DL2	A-3	Q22	I-3	Q72	A-3
DL3	C-5	Q23	I-1	Q73	B-3
		Q24	C-1	Q74	A-3
IC1	G-2	Q25	I-1	Q75	A-2
IC5	A-5	Q26	I-1	Q76	A-1
IC6	A-2	Q27	I-2	Q77	I-1
IC7	E-2	Q28	I-5		
IC8	C-1	Q29	I-5	RV1	H-1
IC9	C-3	Q30	I-5	RV2	E-5
IC10	I-2	Q31	I-5	RV3	C-5
IC11	I-2	Q32	I-5	RV4	C-5
IC12	F-4	Q33	H-5	RV5	A-5
IC13	C-5	Q34	H-5	RV6	B-2
		Q35	G-5	RV7	B-3
L1	D-1	Q36	G-4		
L2	D-1	Q37	G-5	S1	B-5
L3	G-2	Q38	G-5		
L4	F-1	Q39	G-5	TP1	F-3
L5	I-3	Q41	E-5	TP2	I-5
L6	E-5	Q42	E-5	TP3	E-5
L7	D-4	Q43	E-5	TP4	D-5
L8	D-5	Q44	E-4	TP5	D-5
L9	E-5	Q45	F-4	TP6	C-5
L10	C-5	Q46	F-4	TP7	A-4
L11	C-1	Q47	I-1	TP8	A-3
L12	B-1	Q48	C-4	TP9	I-1
L13	A-2	Q49	D-5	TP10	B-5
		Q50	E-5	TP11	A-1
Q1	E-2	Q51	D-5	TP12	C-1
Q2	E-2	Q52	C-5		
Q3	F-1	Q53	C-5		
Q4	G-1	Q54	C-5		
Q5	G-2	Q55	C-4		
Q6	F-2	Q56	B-4		

1-638-044-11 SOLDERING SIDE

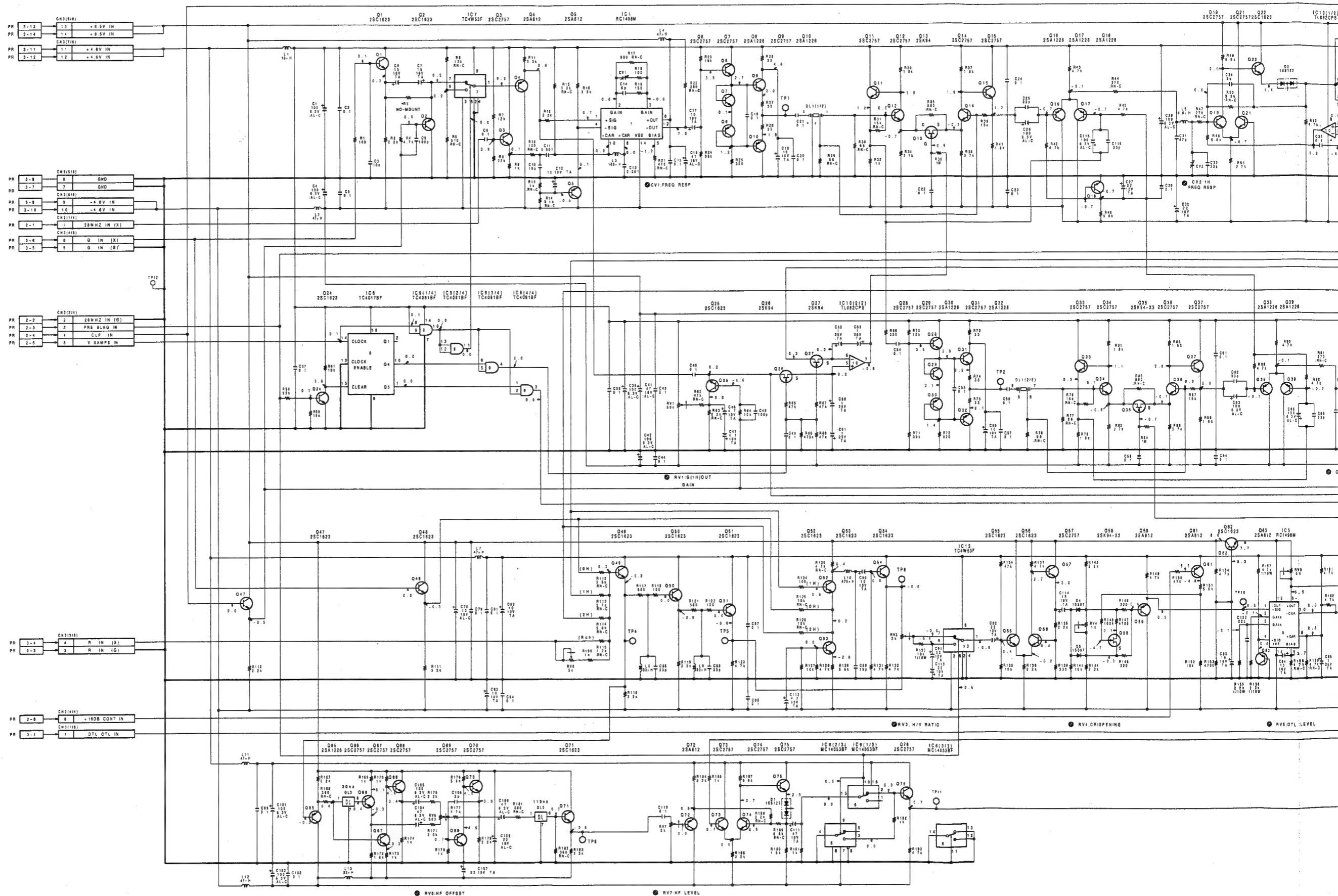
IE-28 BOARD

NOTE :

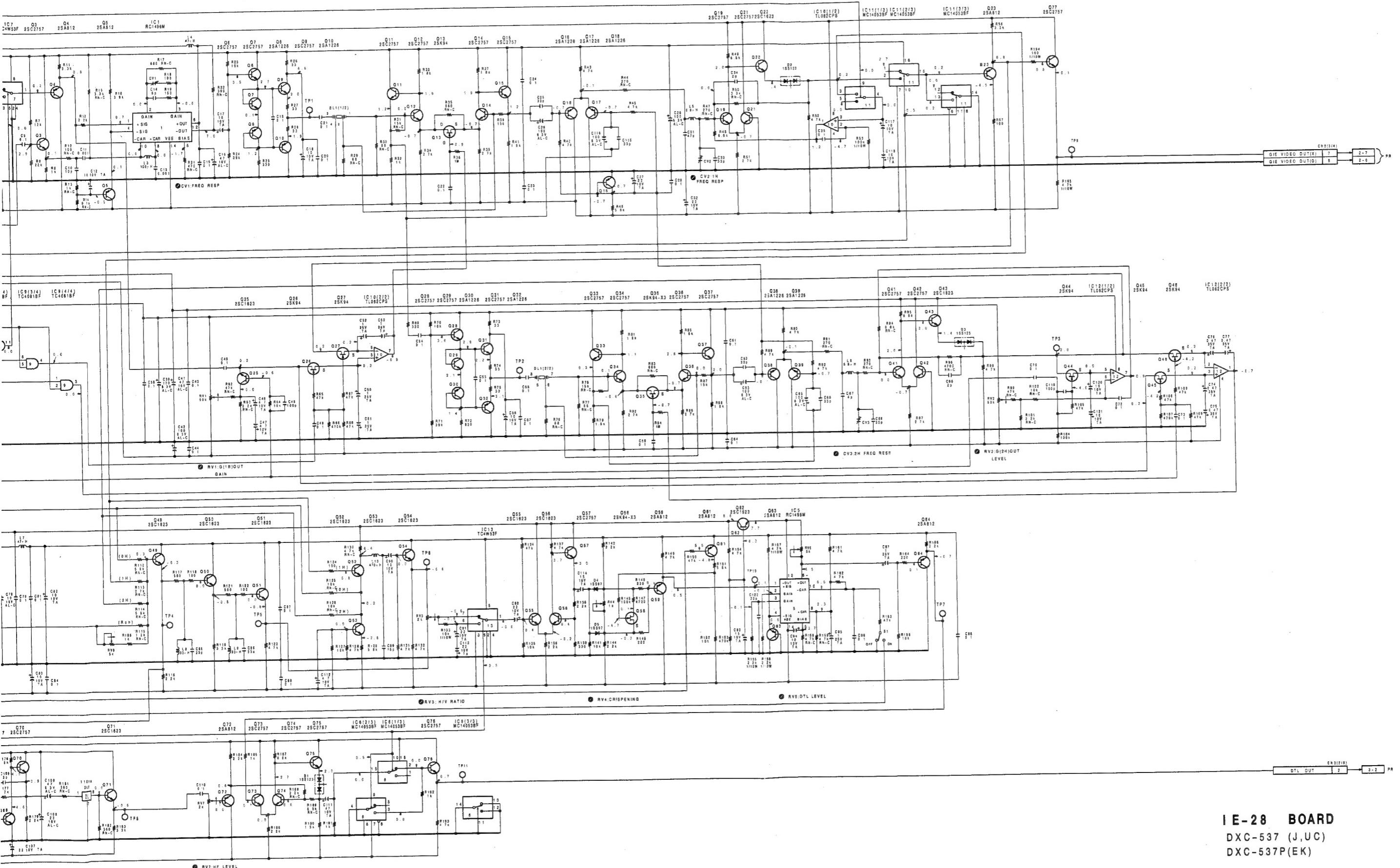
1. All voltage are DC, measured with a digital voltmeter.
2. All waveforms are taken and DC voltage is measured in condition below.
- Connect the camera adapter CA-537P to the camera.
- Shoot the grayscale chart. Ajust lens iris so that a white level is 700mV on the waveform monitor.
- OUTPUT : CAM
- GAIN : 0 dB
- WHITE BAL : PRE
- SHUTTER : OFF
- ZEBRA MARKER : OFF OFF
- PHASE : 0°



IE-28 BOARD



DXC-537 (J, U C)
DXC-537P (E K)



SG-171 BOARD

SG-171(1-638-049-11)

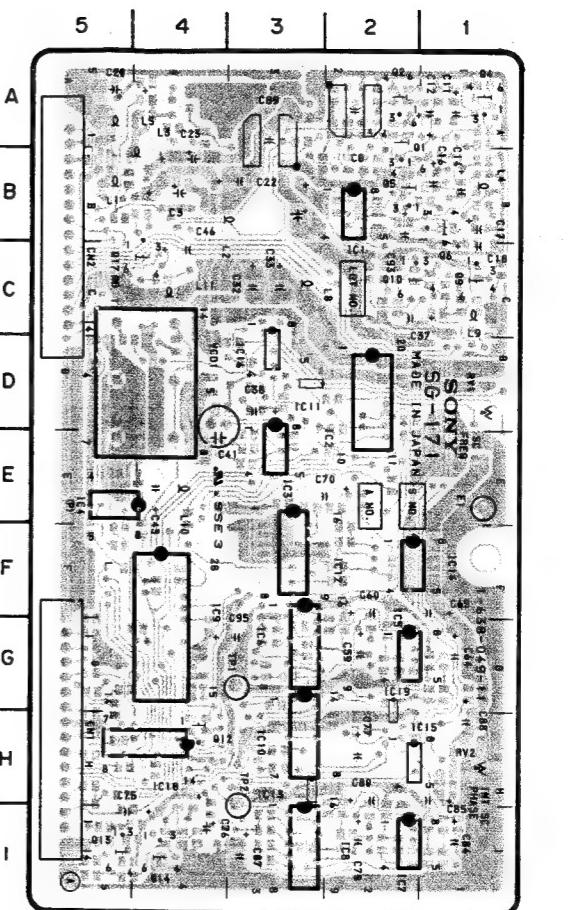
CN1 H-5
 CN2 C-5

D1 A-2
 D2 A-1
 D3 D-4

E1 E-1

IC1 C-2
 IC2 E-2
 IC3 E-3
 IC5 F-2
 IC6 G-3
 IC7 I-2
 IC8 I-2
 IC9 F-4
 IC10 H-3
 IC11 D-3
 IC12 F-2
 IC13 H-3
 IC14 F-1
 IC15 H-1
 IC16 D-3
 IC18 H-4
 IC19 G-2

L1 B-5
 L2 C-3
 L3 A-4
 L4 B-2
 L5 A-4
 L8 C-2
 L9 C-1
 L10 E-4



SG-171 BOARD

SG-171(1-638-049-11)

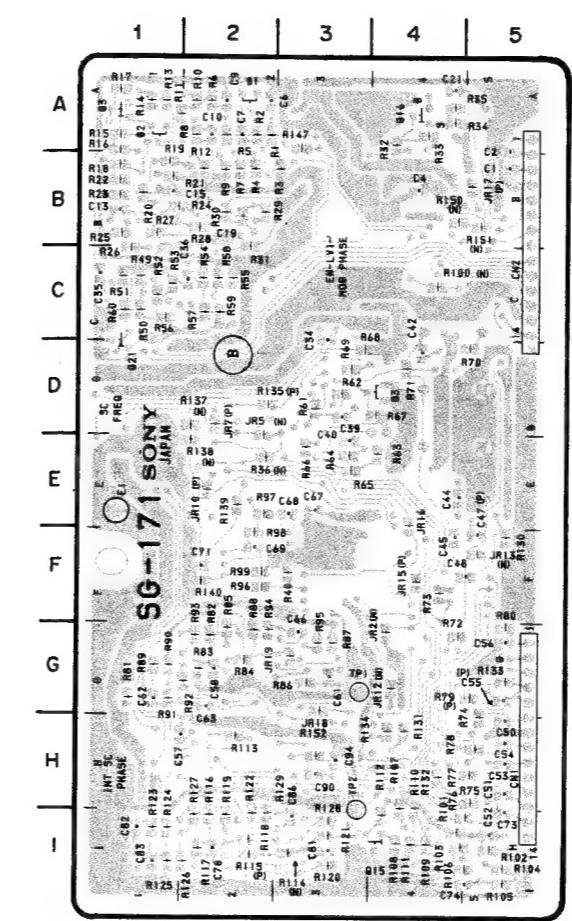
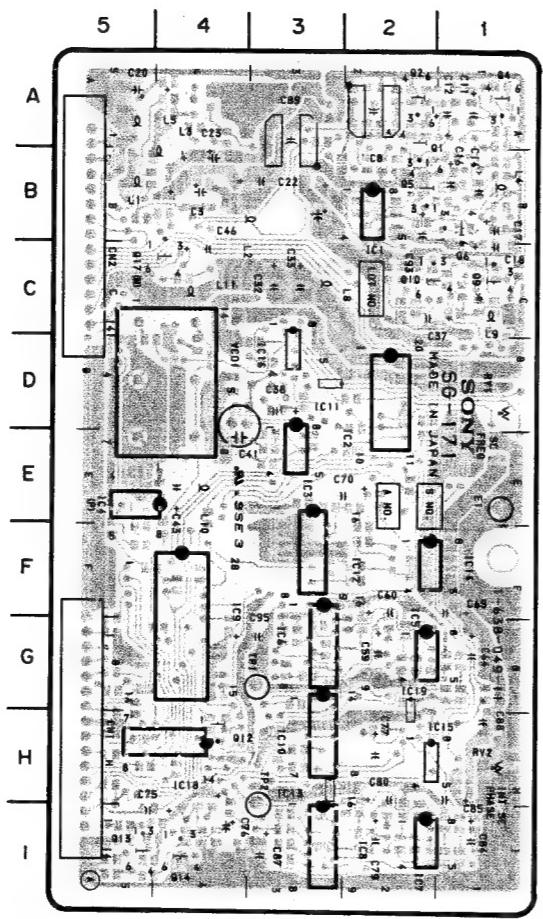
CN1 H-5
CN2 C-5

D1 A-2
D2 A-1
D3 D-4

E1 E-1

IC1 C-2
IC2 E-2
IC3 E-3
IC5 F-2
IC6 G-3
IC7 I-2
IC8 I-2
IC9 F-4
IC10 H-3
IC11 D-3
IC12 F-2
IC13 H-3
IC14 F-1
IC15 H-1
IC16 D-3
IC18 H-4
IC19 G-2

L1 B-5
L2 C-3
L3 A-4
L4 B-2
L5 A-4
L8 C-2
L9 C-1
L10 E-4



SG-171(1-638-049-11)

CN1 H-5
CN2 C-5

D1 A-2
D2 A-1
D3 D-4

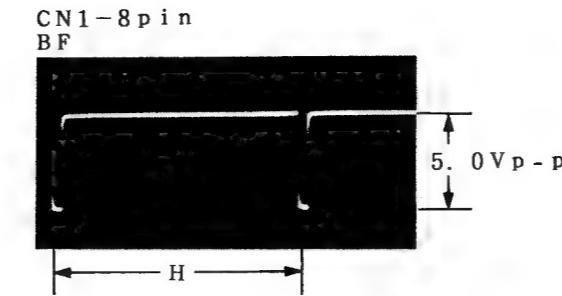
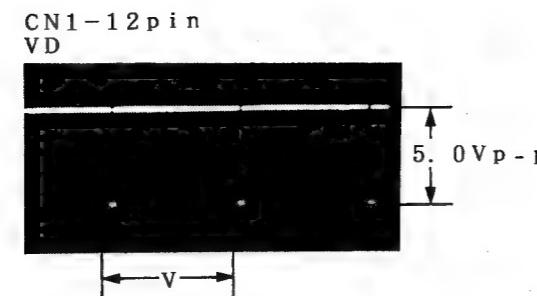
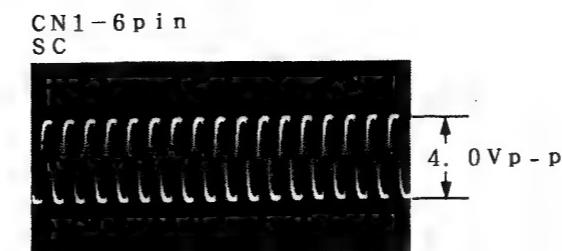
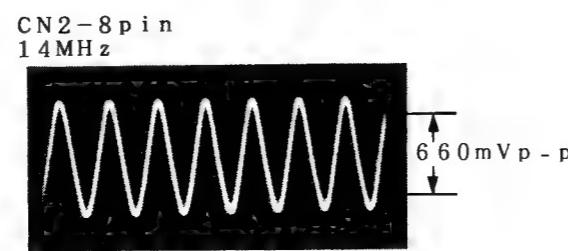
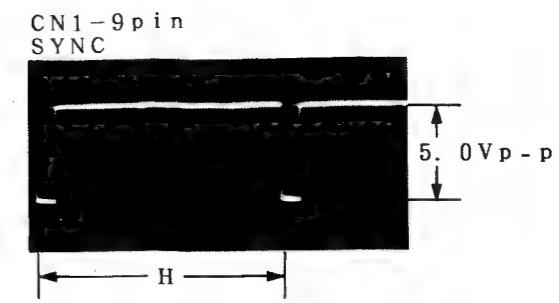
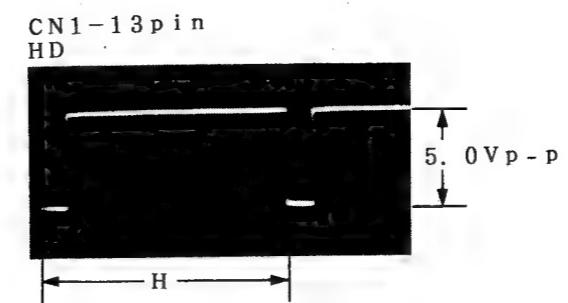
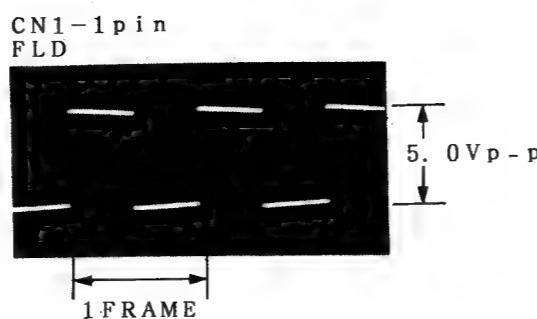
E1 E-1

IC1 C-2
IC2 E-2
IC3 E-3
IC5 F-2
IC6 G-3
IC7 I-2
IC8 I-2
IC9 F-4
IC10 H-3
IC11 D-3
IC12 F-2
IC13 H-3
IC14 F-1
IC15 H-1
IC16 D-3
IC18 H-4
IC19 G-2

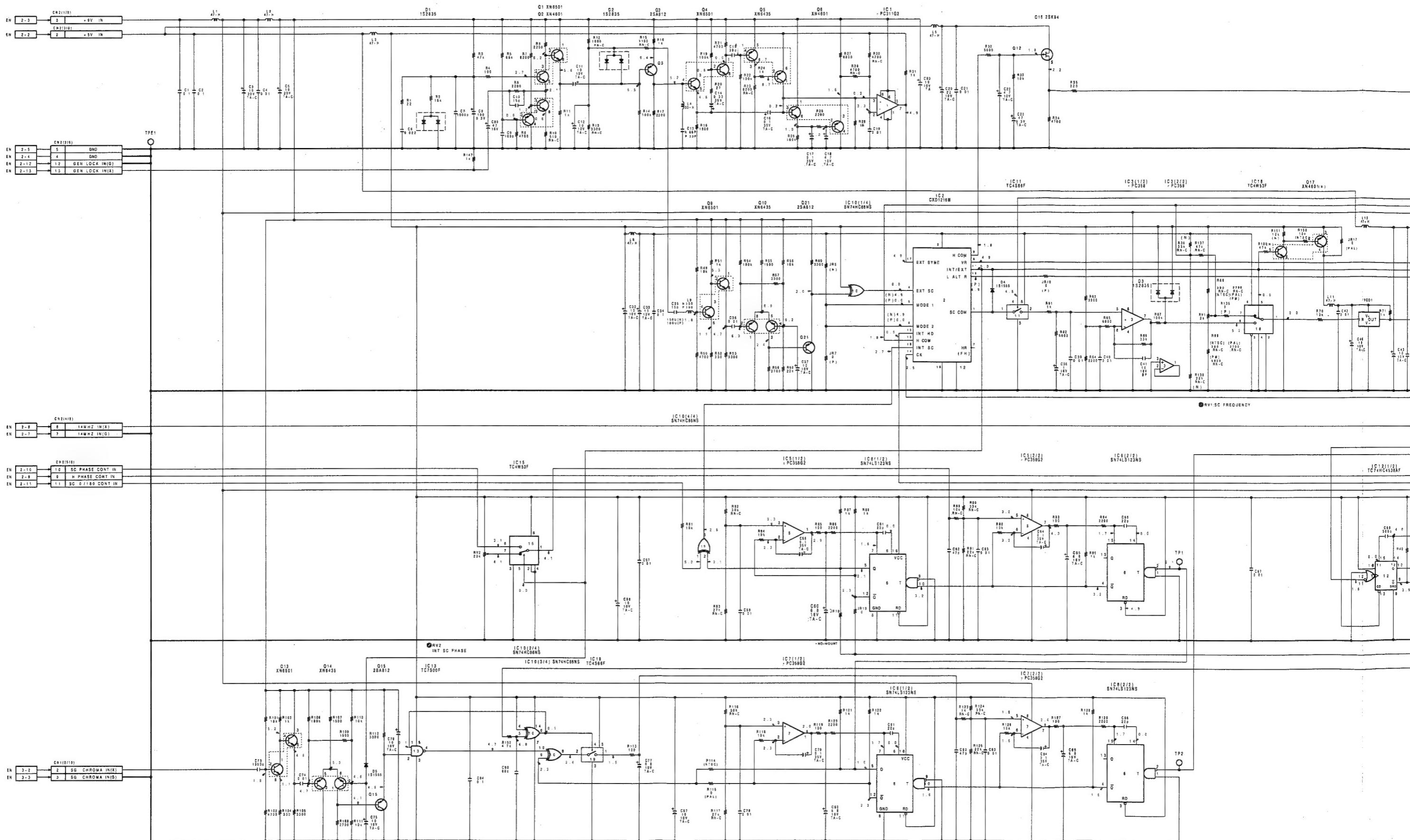
L1 B-5
L2 C-3
L3 A-4
L4 B-2
L5 A-4
L8 C-2
L9 C-1
L10 E-4

SG-171 BOARD**NOTE :**

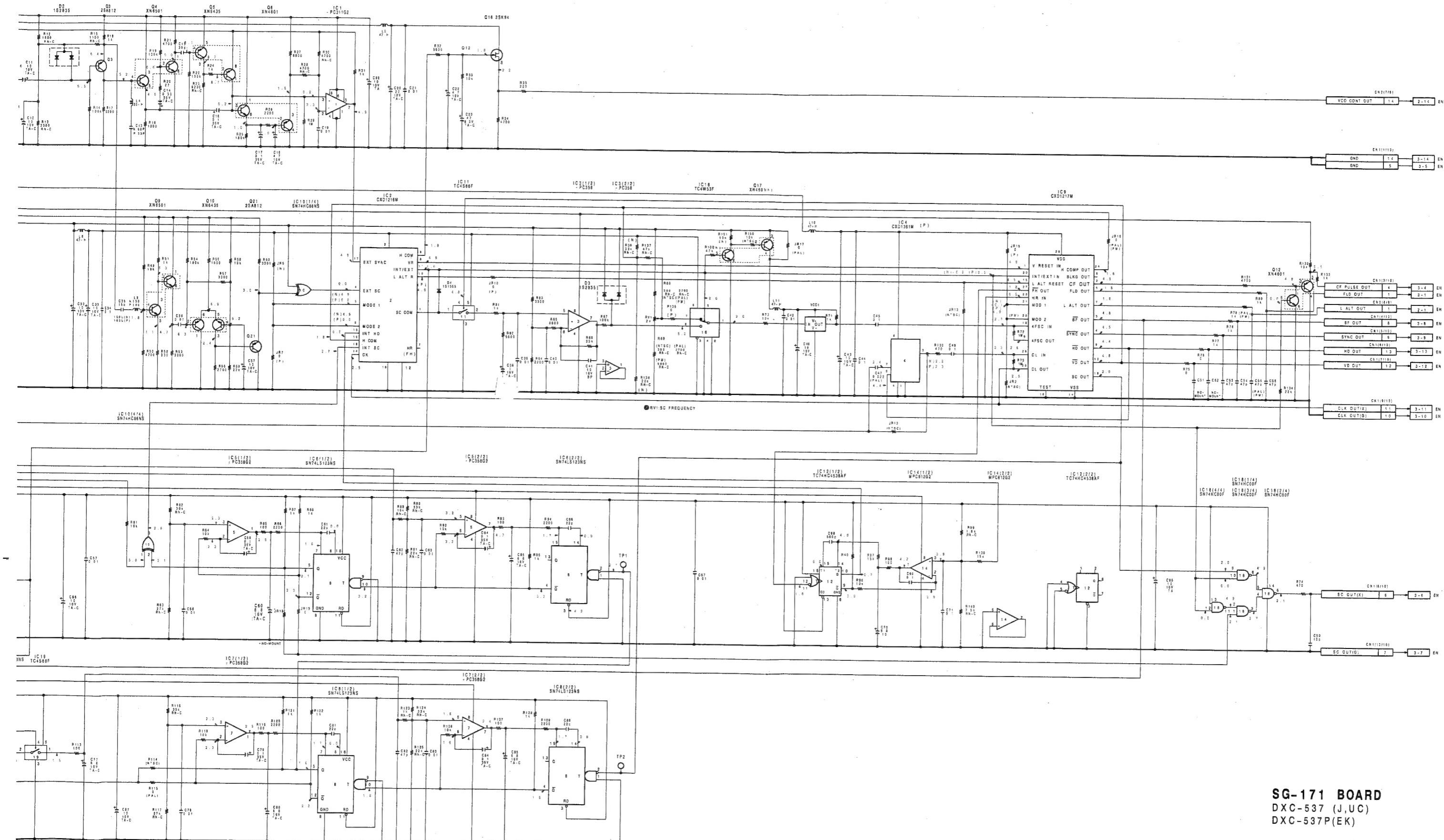
1. All voltage are DC, measured with a digital voltmeter.
 2. All waveforms are taken and DC voltage is measured in condition below.
- Connect the camera adapter CA-537P to the camera.
 - OUTPUT : BARS
 - GAIN : 0 dB
 - WHITE BAL : PRE
 - SHUTTER : OFF
 - ZEBRA MARKER : OFF OFF
 - PHASE : 0°



SG-171 BOARD



DXC-537 (J, U C)
DXC-537P (E K)



C-44

E

F

G

H

C-45

J

K

L

B-^Y DXC537-SG171/M

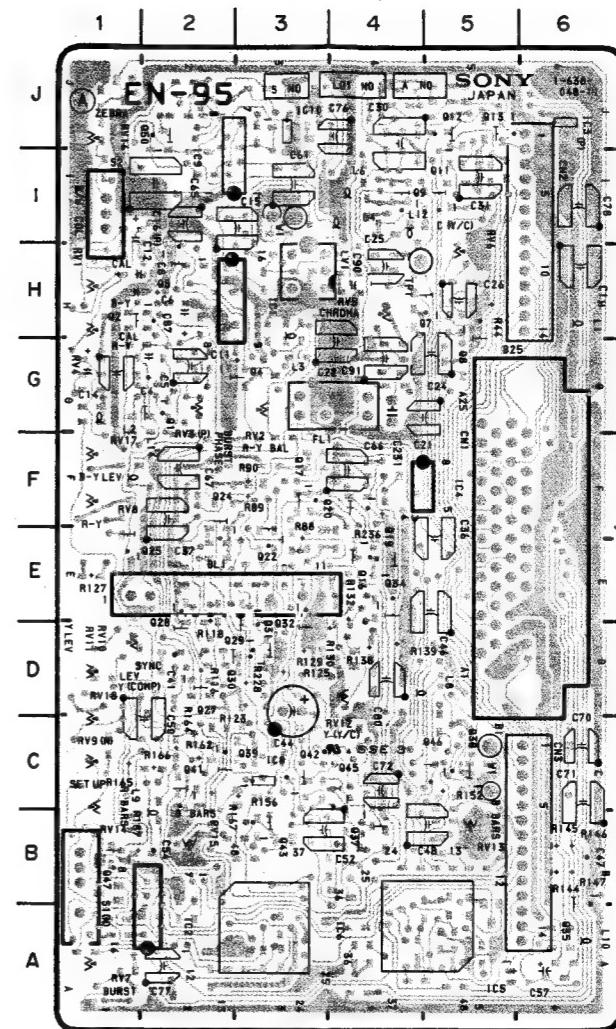
EN-95 BOARD

S/N J : 30001 through 30040
UC: 10001 through 10060
EK: 40001 through 40050

EN-95(1-638-048-11)

CN1	F-5	Q20	F-3
		Q22	F-2
D1	E-2	Q24	F-2
D3	J-1	Q25	E-2
		Q27	D-2
DL1	E-2	Q28	D-2
		Q29	D-3
FL1	F-3	Q30	D-2
		Q31	D-3
IC1	H-3	Q32	D-3
IC2	A-2	Q33	D-3
IC4	F-5	Q34	E-4
IC5	A-5	Q35	A-6
IC6	A-4	Q36	B-5
IC8	C-3	Q37	B-4
IC9	I-2	Q38	C-5
IC10	J-3	Q39	C-3
		Q40	D-2
LV1	H-4	Q41	C-2
		Q42	C-3
L1	G-6	Q43	B-3
L2	G-1	Q44	B-3
L3	G-3	Q45	C-4
L4	I-4	Q46	C-5
L6	I-4	Q47	B-1
L8	D-5	Q48	C-2
L9	C-1	Q49	J-4
L10	A-6	Q50	J-2
L12	L-4		
L14	F-2	RV1	H-1
		RV2	F-3
Q1	G-2	RV4	G-1
Q2	H-1	RV5	H-4
Q4	G-3	RV6	I-5
Q5	H-2	RV7	A-1
Q7	H-4	RV8	F-1
Q8	G-5	RV9	C-1
Q9	I-4	RV10	D-1
Q10	I-5	RV11	D-1
Q11	I-5	RV12	C-4
Q12	J-5	RV13	B-5
Q13	J-5	RV14	B-1
Q14	J-5	RV15	B-2
Q15	B-1	RV16	J-1
Q16	E-4	RV17	F-1
Q17	F-3		
Q18	F-3	S1	A-1
Q19	E-4	S2	I-2

TP1 H-4



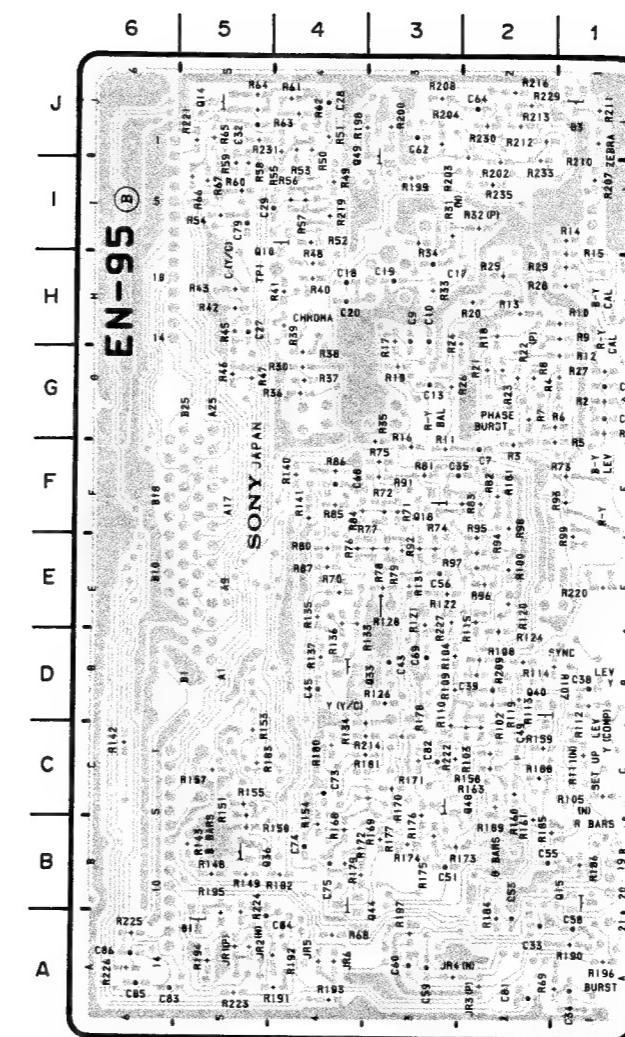
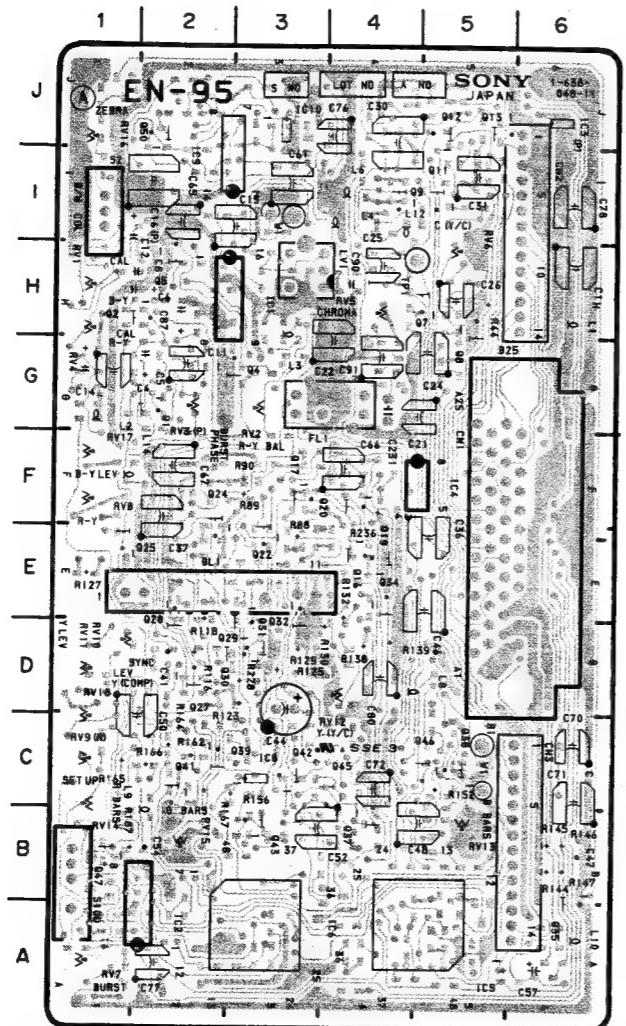
EN-95 BOARD

S/N J ; 30001 through 30040
UC; 10001 through 10060
EK; 40001 through 40050

EN-95(1-638-048-11)

CN1	F-5	Q20	F-3
		Q22	F-2
D1	E-2	Q24	F-2
D3	J-1	Q25	E-2
		Q27	D-2
DL1	E-2	Q28	D-2
		Q29	D-3
FL1	F-3	Q30	D-2
		Q31	D-3
IC1	H-3	Q32	D-3
IC2	A-2	Q33	D-3
IC4	F-5	Q34	E-4
IC5	A-5	Q35	A-6
IC6	A-4	Q36	B-5
IC8	C-3	Q37	B-4
IC9	I-2	Q38	C-5
IC10	J-3	Q39	C-3
		Q40	D-2
LV1	H-4	Q41	C-2
		Q42	C-3
L1	G-6	Q43	B-3
L2	G-1	Q44	B-3
L3	G-3	Q45	C-4
L4	I-4	Q46	C-5
L6	I-4	Q47	B-1
L8	D-5	Q48	C-2
L9	C-1	Q49	J-4
L10	A-6	Q50	J-2
L12	L-4		
L14	F-2	RV1	H-1
		RV2	F-3
Q1	G-2	RV4	G-1
Q2	H-1	RV5	H-4
Q4	G-3	RV6	I-5
Q5	H-2	RV7	A-1
Q7	H-4	RV8	F-1
Q8	G-5	RV9	C-1
Q9	I-4	RV10	D-1
Q10	I-5	RV11	D-1
Q11	I-5	RV12	C-4
Q12	J-5	RV13	B-5
Q13	J-5	RV14	B-1
Q14	J-5	RV15	B-2
Q15	B-1	RV16	J-1
Q16	E-4	RV17	F-1
Q17	F-3		
Q18	F-3	S1	A-1
Q19	E-4	S2	I-2

TP1 H-4



1-638-048-11 SOLDERING SIDE

EN-95(1-638-048-11)

CN1	F-5	Q20	F-3
		Q22	F-2
D1	E-2	Q24	F-2
D3	J-1	Q25	E-2
		Q27	D-2
DL1	E-2	Q28	D-2
		Q29	D-3
FL1	F-3	Q30	D-2
		Q31	D-3
IC1	H-3	Q32	D-3
IC2	A-2	Q33	D-3
IC4	F-5	Q34	E-4
IC5	A-5	Q35	A-6
IC6	A-4	Q36	B-5
IC8	C-3	Q37	B-4
IC9	I-2	Q38	C-5
IC10	J-3	Q39	C-3
		Q40	D-2
LV1	H-4	Q41	C-2
		Q42	C-3
L1	G-6	Q43	B-3
L2	G-1	Q44	B-3
L3	G-3	Q45	C-4
L4	I-4	Q46	C-5
L6	I-4	Q47	B-1
L8	D-5	Q48	C-2
L9	C-1	Q49	J-4
L10	A-6	Q50	J-2
L12	L-4		
L14	F-2	RV1	H-1
		RV2	F-3
Q1	G-2	RV4	G-1
Q2	H-1	RV5	H-4
Q4	G-3	RV6	I-5
Q5	H-2	RV7	A-1
Q7	H-4	RV8	F-1
Q8	G-5	RV9	C-1
Q9	I-4	RV10	D-1
Q10	I-5	RV11	D-1
Q11	I-5	RV12	C-4
Q12	J-5	RV13	B-5
Q13	J-5	RV14	B-1
Q14	J-5	RV15	B-2
Q15	B-1	RV16	J-1
Q16	E-4	RV17	F-1
Q17	F-3		
Q18	F-3	S1	A-1
Q19	E-4	S2	I-2

TP1 H-4

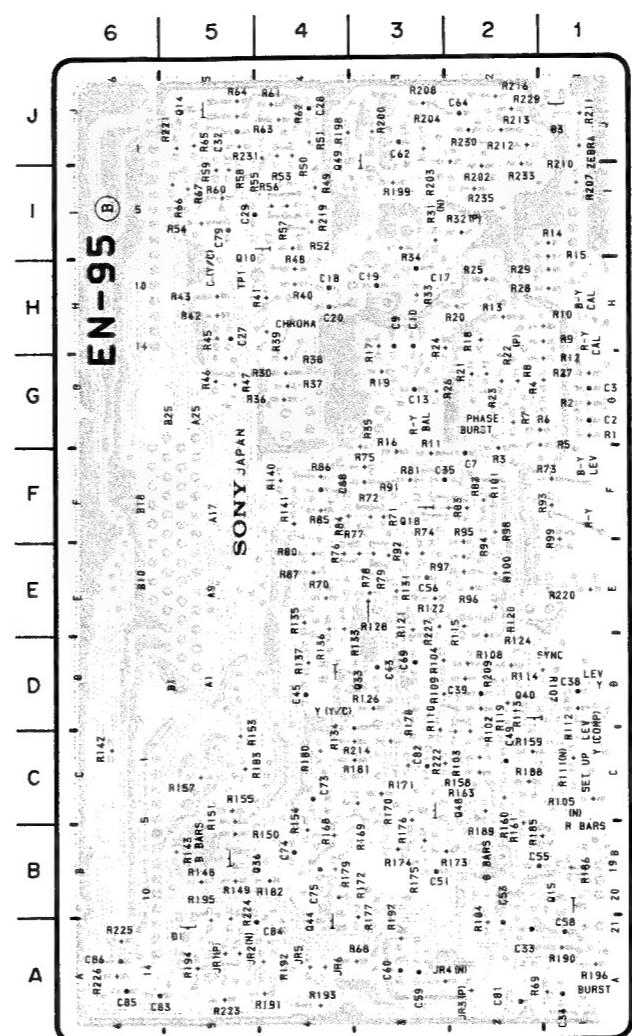
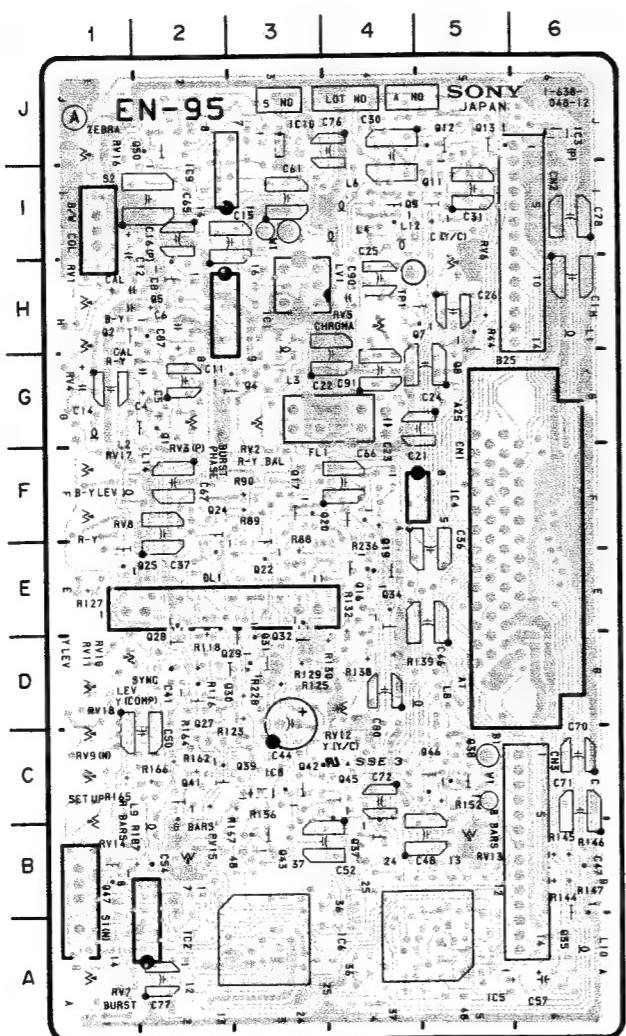
EN-95 BOARD

S/N J ; 30041 and higher
UC; 10061 and higher
EK; 40051 and higher

EN-95(1-638-048-12)

CN1	F-5	Q20	F-3
		Q22	F-2
D1	E-2	Q24	F-2
D3	J-1	Q25	E-2
		Q27	D-2
DL1	E-2	Q28	D-2
		Q29	D-3
FL1	F-3	Q30	D-2
		Q31	D-3
IC1	H-3	Q32	D-3
IC2	A-2	Q33	D-3
IC4	F-5	Q34	E-4
IC5	A-5	Q35	A-6
IC6	A-4	Q36	B-5
IC8	C-3	Q37	B-4
IC9	I-2	Q38	C-5
IC10	J-3	Q39	C-3
		Q40	D-2
LV1	H-4	Q41	C-2
		Q42	C-3
L1	G-6	Q43	B-3
L2	G-1	Q44	B-3
L3	G-3	Q45	C-4
L4	I-4	Q46	C-5
L6	I-4	Q47	B-1
L8	D-5	Q48	C-2
L9	C-1	Q49	J-4
L10	A-6	Q50	J-2
L12	L-4		
L14	F-2	RV1	H-1
		RV2	F-3
Q1	G-2	RV4	G-1
Q2	H-1	RV5	H-4
Q4	G-3	RV6	I-5
Q5	H-2	RV7	A-1
Q7	H-4	RV8	F-1
Q8	G-5	RV9	C-1
Q9	I-4	RV10	D-1
Q10	I-5	RV11	D-1
Q11	I-5	RV12	C-4
Q12	J-5	RV13	B-5
Q13	J-5	RV14	B-1
Q14	J-5	RV15	B-2
Q15	B-1	RV16	J-1
Q16	E-4	RV17	F-1
Q17	F-3		
Q18	F-3	S1	A-1
Q19	E-4	S2	I-2

TP1 H-4



EN-95(1-638-048-12)

CN1	F-5	Q20	F-3
D1	E-2	Q22	F-2
D3	J-1	Q24	F-2
		Q25	E-2
DL1	E-2	Q27	D-2
FL1	F-3	Q28	D-2
		Q29	D-3
IC1	H-3	Q30	D-2
IC2	A-2	Q31	D-3
IC4	F-5	Q32	D-3
IC5	A-5	Q33	E-4
IC6	A-4	Q34	A-6
IC8	C-3	Q35	Q36
IC9	I-2	Q37	B-5
IC10	J-3	Q38	B-4
		Q39	C-5
LV1	H-4	Q40	C-3
		Q41	D-2
L1	G-6	Q42	C-2
L2	G-1	Q43	B-3
L3	G-3	Q44	B-3
L4	I-4	Q45	C-4
L6	I-4	Q46	C-5
L8	D-5	Q47	B-1
L9	C-1	Q48	C-2
L10	A-6	Q49	J-4
L12	L-4	Q50	J-2
L14	F-2	RV1	H-1
		RV2	F-3
Q1	G-2	RV4	G-1
Q2	H-1	RV5	H-4
Q4	G-3	RV6	I-5
Q5	H-2	RV7	A-1
Q7	H-4	RV8	F-1
Q8	G-5	RV9	C-1
Q9	I-4	RV10	D-1
Q10	I-5	RV11	D-1
Q11	I-5	RV12	C-4
Q12	J-5	RV13	B-5
Q13	J-5	RV14	B-1
Q14	J-5	RV15	B-2
Q15	B-1	RV16	J-1
Q16	E-4	RV17	F-1
Q17	F-3		
Q18	F-3	S1	A-1
Q19	E-4	S2	I-2

TP1 H-4

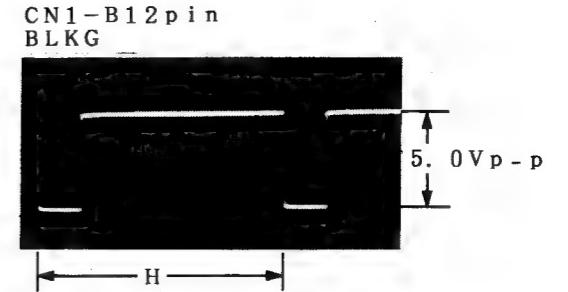
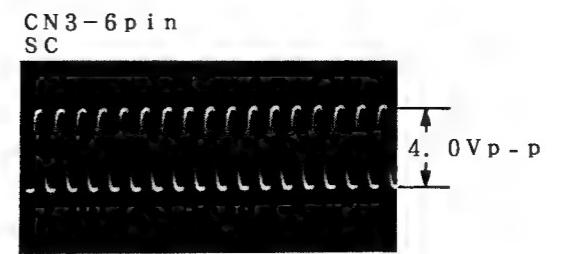
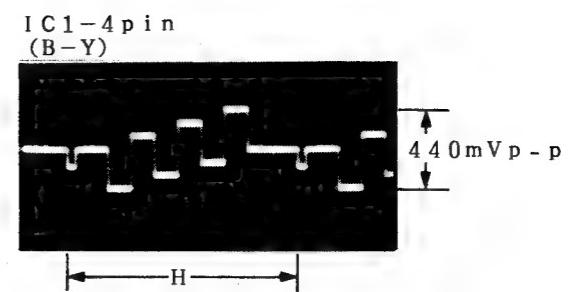
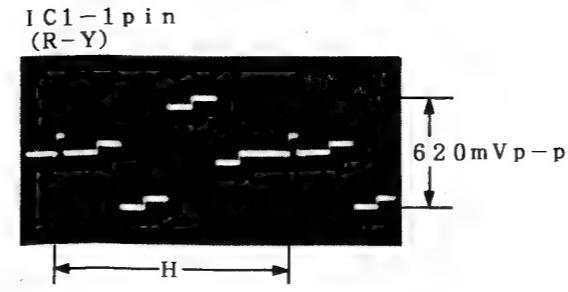
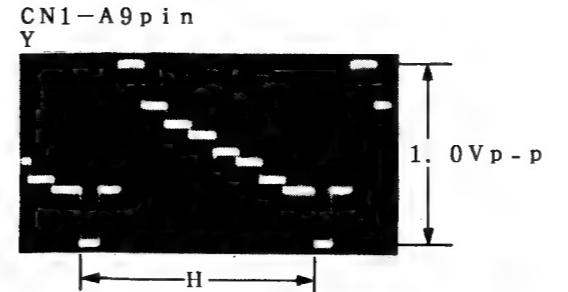
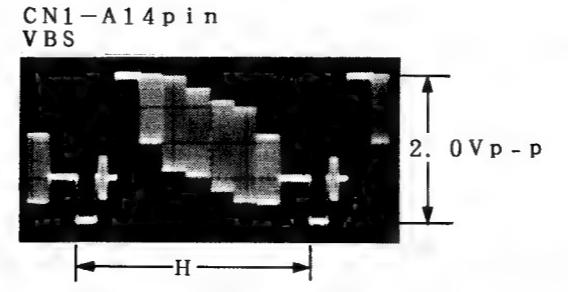
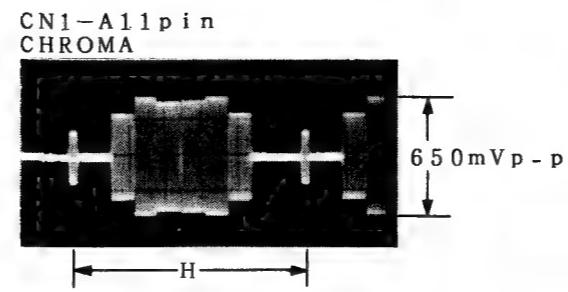
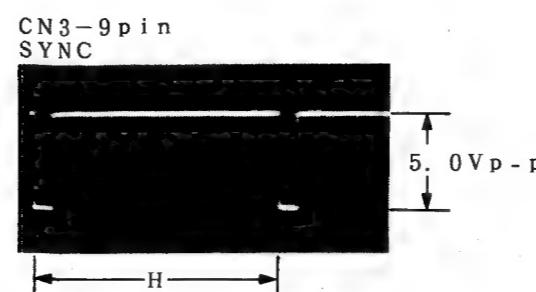
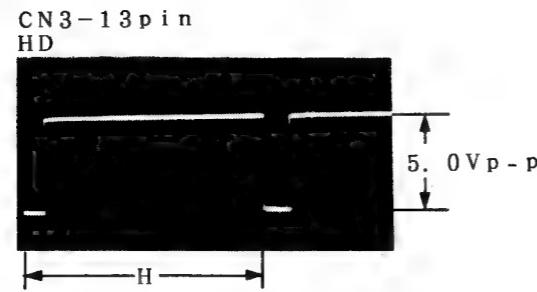
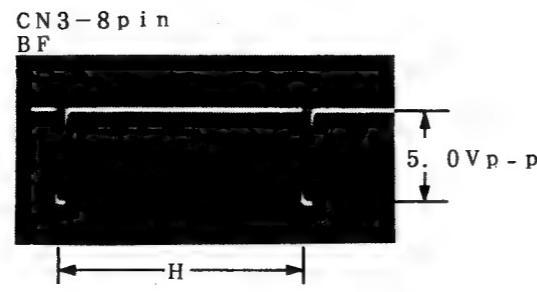
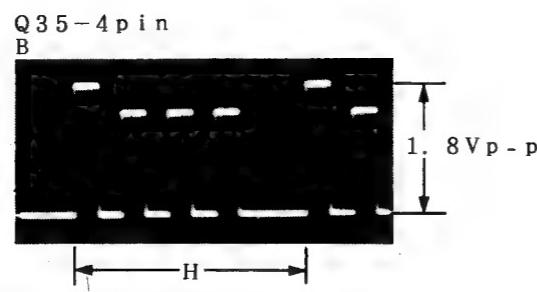
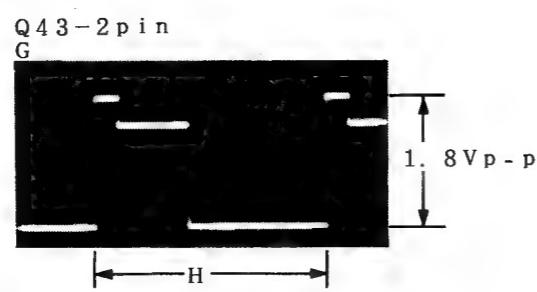
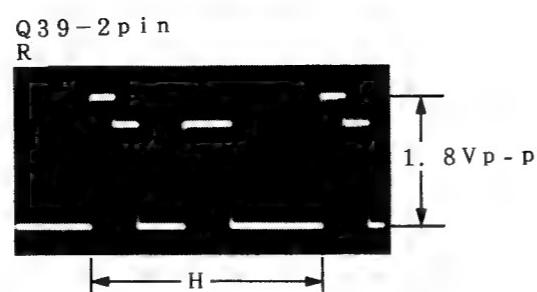
DXC-537 (J, UC)
DXC-537P (EK)



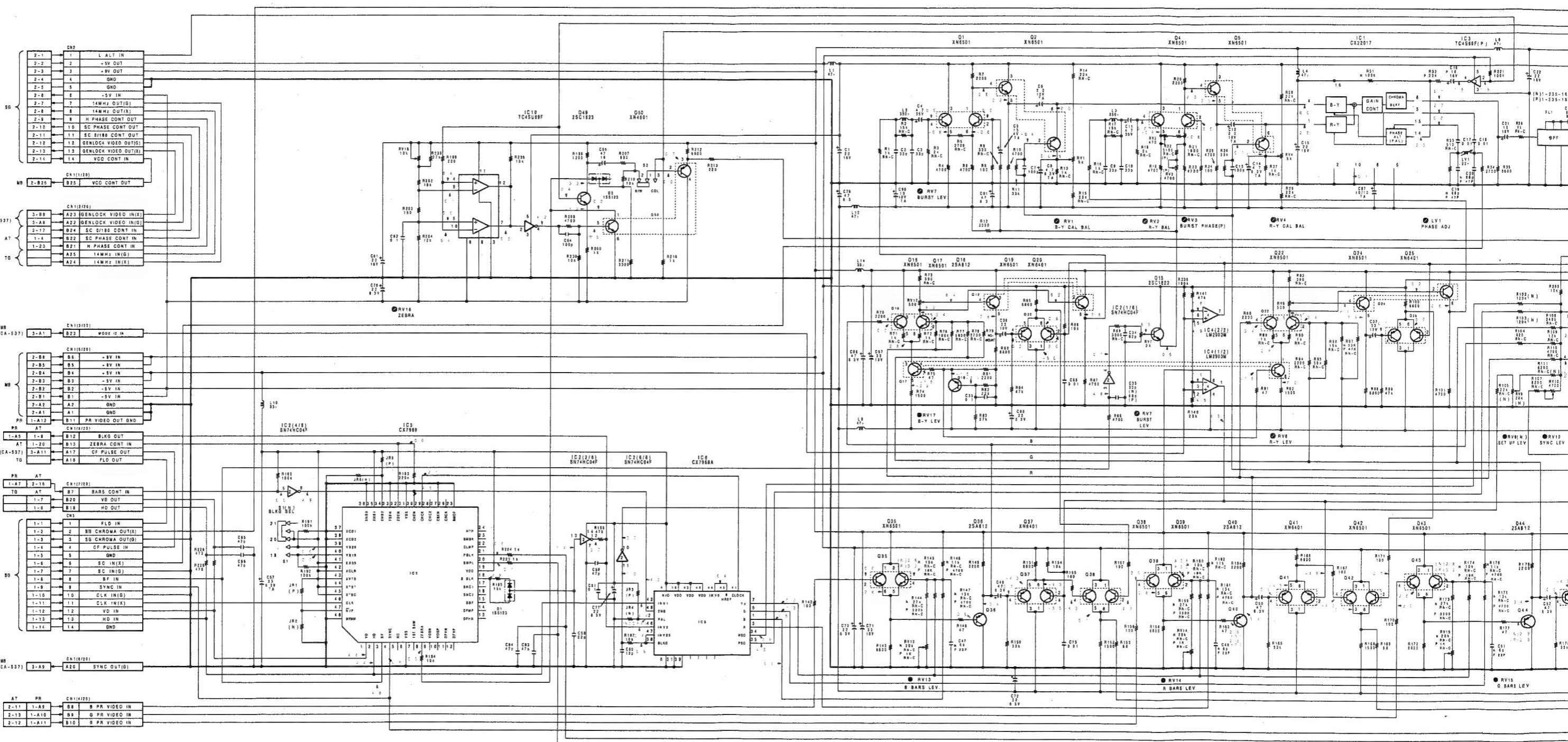
EN-95 BOARD

NOTE :

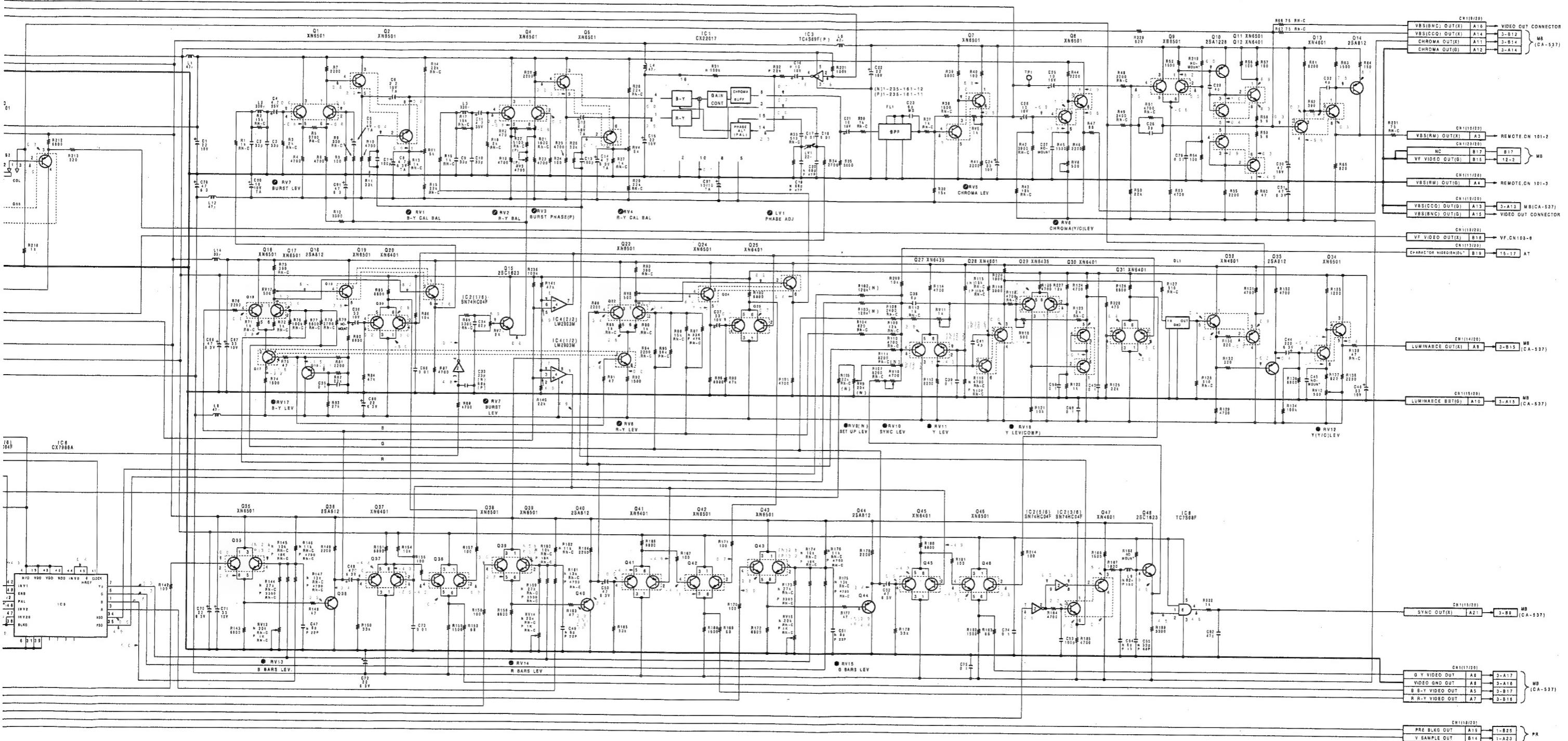
1. All voltage are DC, measured with a digital voltmeter.
2. All waveforms are taken and DC voltage is measured in condition below.
- Connect the camera adapter CA-537P to the camera.
- OUTPUT : BARS
- GAIN : 0 dB
- WHITE BAL : PRE
- SHUTTER : OFF
- ZEBRA MARKER : OFF OFF
- PHASE : 0°



EN-95 BOARD



DXC-537 (J, U C)
DXC-537P (E K)



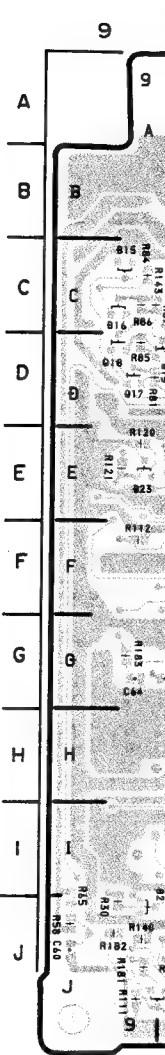
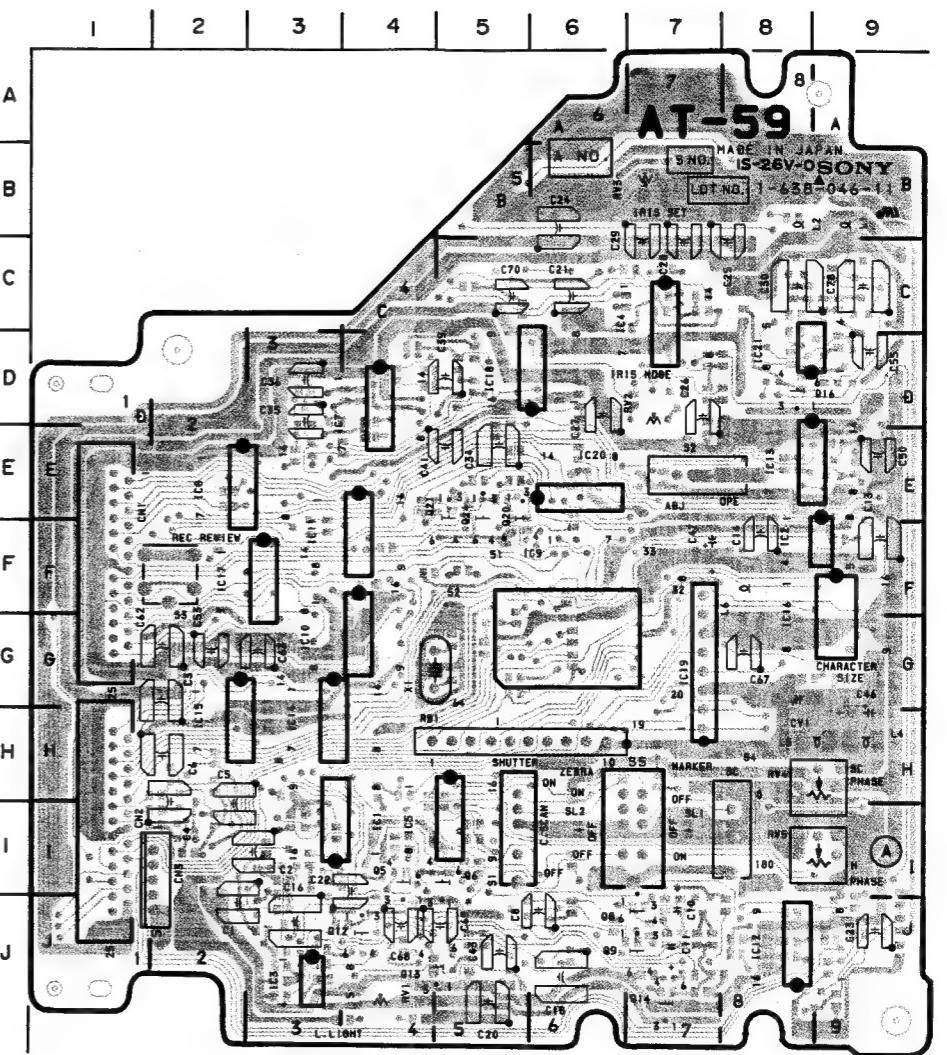
EN-95 BOARD
DXC-537 (J, U C)
DXC-537P(E K)

AT-59 BOARD

AT-59(1-638-046-11)

CN1	E-1	Q1	H-2
CN2	I-1	Q2	H-2
CN3	I-2	Q3	I-2
		Q4	J-3
CV1	H-8	Q5	I-4
		Q6	I-5
D2	J-9	Q7	J-5
D3	J-5	Q8	J-6
D5	J-4	Q9	J-6
D9	J-2	Q10	I-7
D10	I-2	Q11	I-3
D11	D-3	Q12	J-3
D12	D-7	Q13	J-4
D13	C-5	Q14	J-7
D14	J-5	Q16	D-9
D15	C-9	Q17	D-9
D16	C-9	Q18	D-9
D17	C-8	Q19	D-9
D21	J-8	Q20	E-5
D23	E-9	Q21	E-4
		Q22	F-5
IC1	I-4	Q24	E-5
IC2	F-8	Q25	E-3
IC3	J-3	RB1	H-4
IC4	C-6		
IC5	I-4	RV1	J-4
IC7	D-4	RV2	D-7
IC8	E-2	RV3	B-6
IC9	F-6	RV4	H-8
IC10	G-3	RV5	I-8
IC11	F-3		
IC12	J-8	S1	I-5
IC13	E-8	S2	E-7
IC14	H-3	S3	G-2
IC15	H-2	S4	H-8
IC16	F-8	S5	H-7
IC17	F-2	X1	G-4
IC18	D-5		
IC19	G-7		
IC20	E-6		
IC21	D-8		

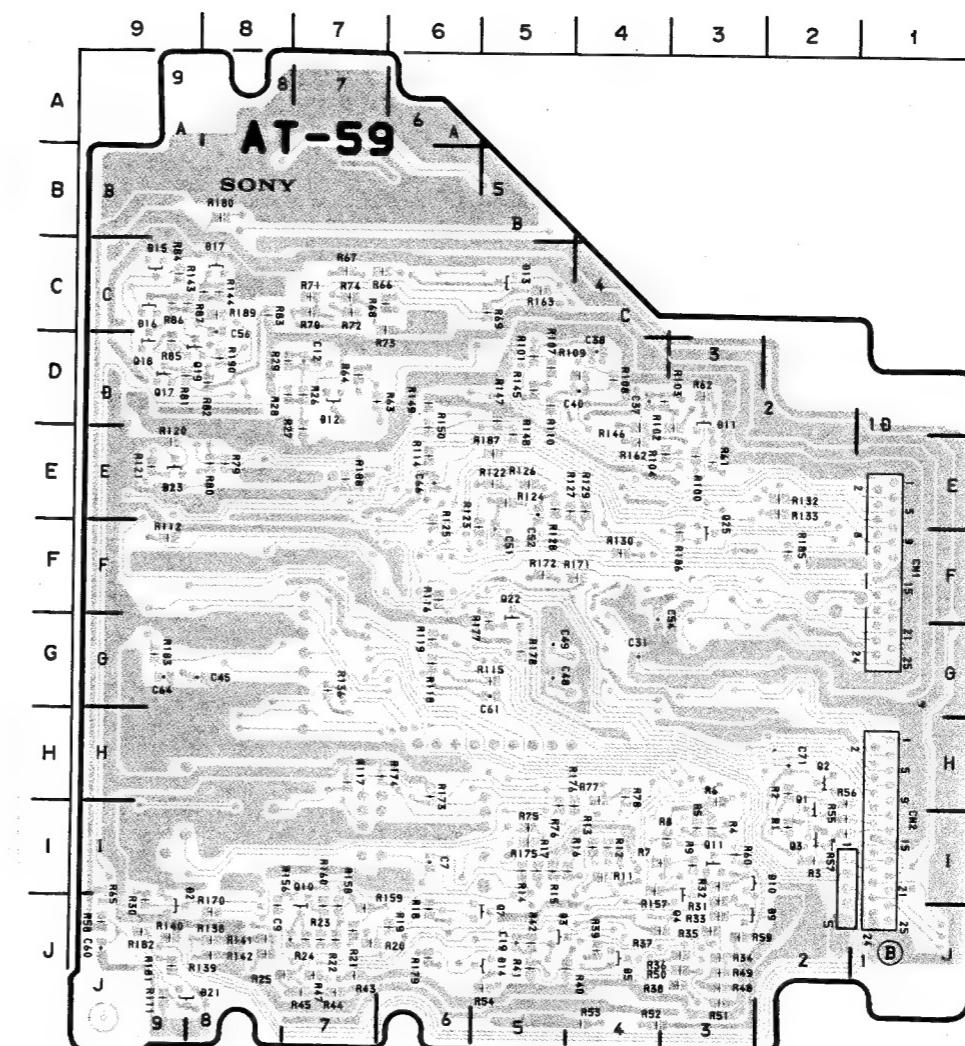
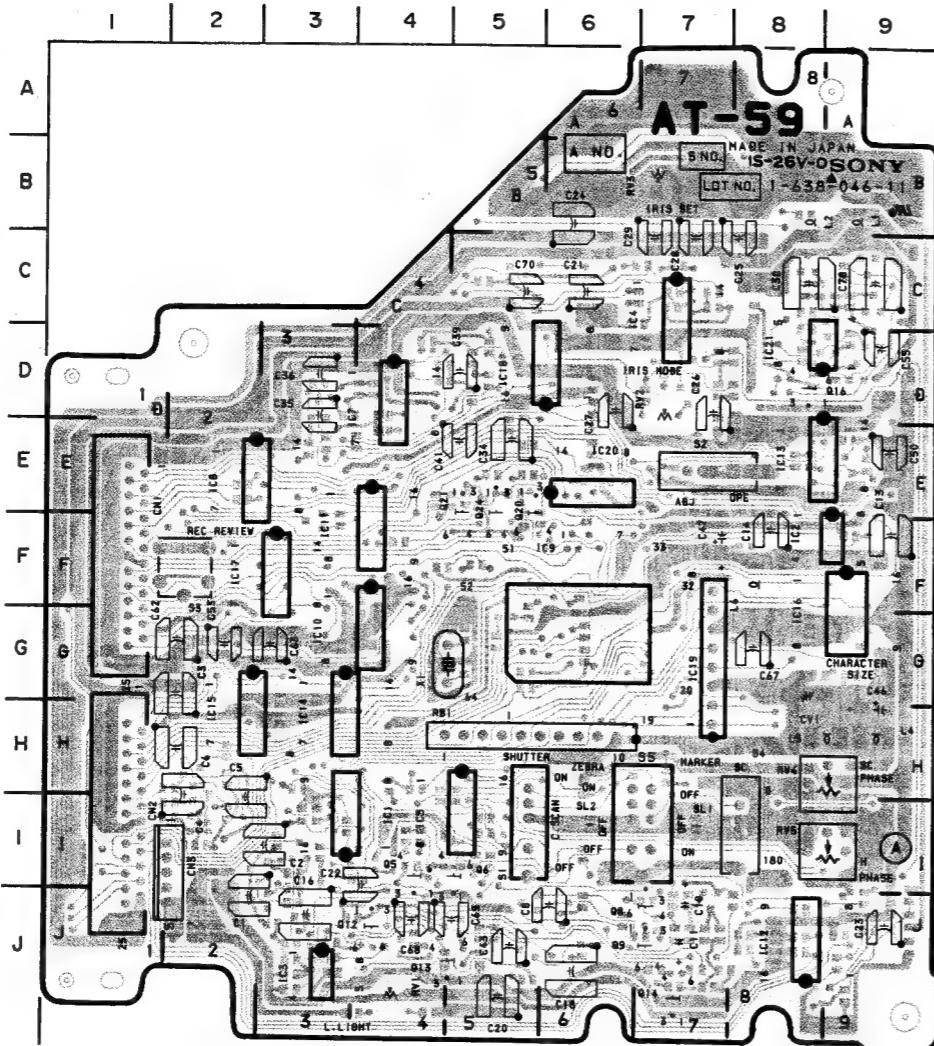
L1 B-9
L2 B-8
L4 H-9
L5 H-8
L6 F-8



AT-59 BOARD

AT-59(1-638-046-11)

CN1	E-1	Q1	H-2
CN2	I-1	Q2	H-2
CN3	I-2	Q3	I-2
		Q4	J-3
CV1	H-8	Q5	I-4
		Q6	I-5
D2	J-9	Q7	J-5
D3	J-5	Q8	J-6
D5	J-4	Q9	J-6
D9	J-2	Q10	I-7
D10	I-2	Q11	I-3
D11	D-3	Q12	J-3
D12	D-7	Q13	J-4
D13	C-5	Q14	J-7
D14	J-5	Q16	D-9
D15	C-9	Q17	D-9
D16	C-9	Q18	D-9
D17	C-8	Q19	D-9
D21	J-8	Q20	E-5
D23	E-9	Q21	E-4
IC1	I-4	Q22	F-5
IC2	F-8	Q24	E-5
IC3	J-3	Q25	E-3
IC4	C-6	RB1	H-4
IC5	I-4	RV1	J-4
IC7	D-4	IC8	E-2
IC8	E-2	RV2	D-7
IC9	F-6	RV3	B-6
IC10	G-3	RV4	H-8
IC11	F-3	RV5	I-8
IC12	J-8	IC13	E-8
IC13	E-8	S1	I-5
IC14	H-3	S2	E-7
IC15	H-2	S3	G-2
IC16	F-8	S4	H-8
IC17	F-2	S5	H-7
IC18	D-5	X1	G-4
IC19	G-7		
IC20	E-6		
IC21	D-8		



1-638-046-11 SOLDERING SIDE

AT-59(1-638-046-11)

CN1	E-1	Q1	H-2
CN2	I-1	Q2	H-2
CN3	I-2	Q3	I-2
		Q4	J-3
CV1	H-8	Q5	I-4
		Q6	I-5
D2	J-9	Q7	J-5
D3	J-5	Q8	J-6
D5	J-4	Q9	J-6
D9	J-2	Q10	I-7
D10	I-2	Q11	I-3
D11	D-3	Q12	J-3
D12	D-7	Q13	J-4
D13	C-5	Q14	J-7
D14	J-5	Q16	D-9
D15	C-9	Q17	D-9
D16	C-9	Q18	D-9
D17	C-8	Q19	D-9
D21	J-8	Q20	E-5
D23	E-9	Q21	E-4
IC1	I-4	Q22	F-5
IC2	F-8	Q24	E-5
IC3	J-3	Q25	E-3
IC4	C-6	RB1	H-4
IC5	I-4	RV1	J-4
IC7	D-4	IC8	E-2
IC8	E-2	RV2	D-7
IC9	F-6	RV3	B-6
IC10	G-3	RV4	H-8
IC11	F-3	RV5	I-8
IC12	J-8	IC13	E-8
IC13	E-8	S1	I-5
IC14	H-3	S2	E-7
IC15	H-2	S3	G-2
IC16	F-8	S4	H-8
IC17	F-2	S5	H-7
IC18	D-5	X1	G-4
IC19	G-7		
IC20	E-6		
IC21	D-8		

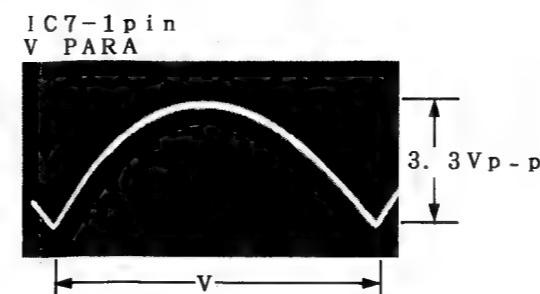
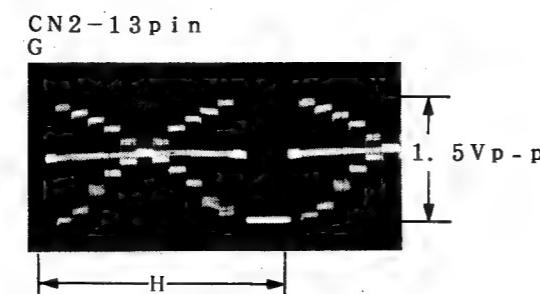
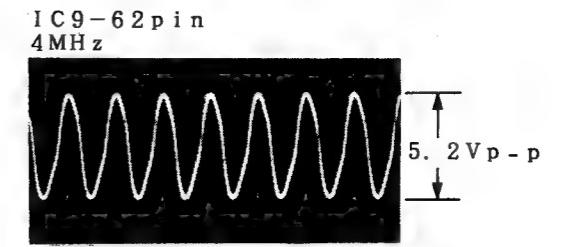
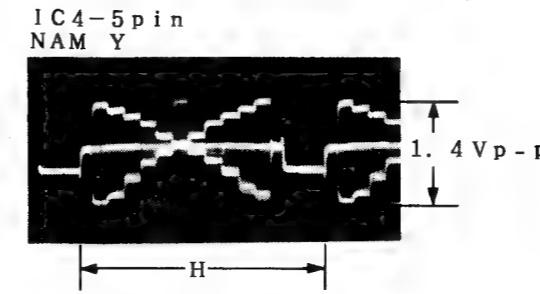
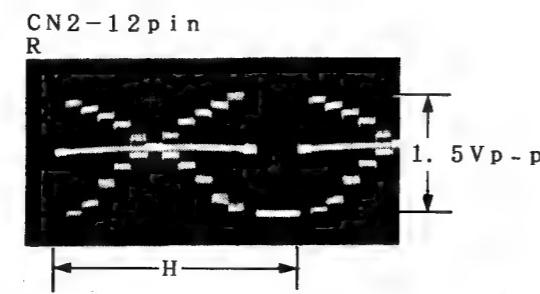
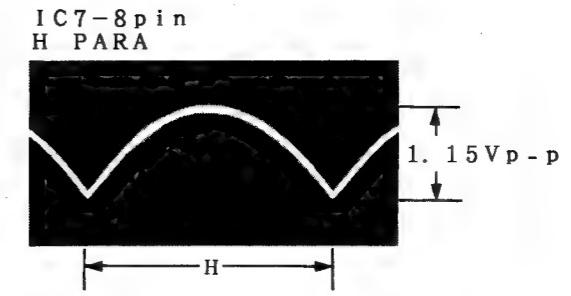
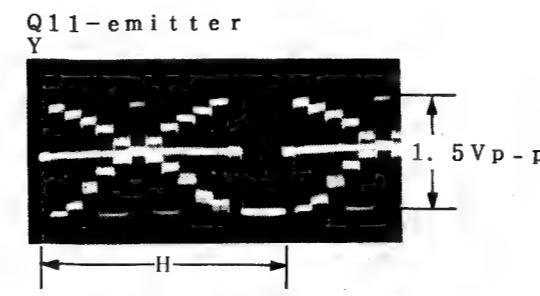
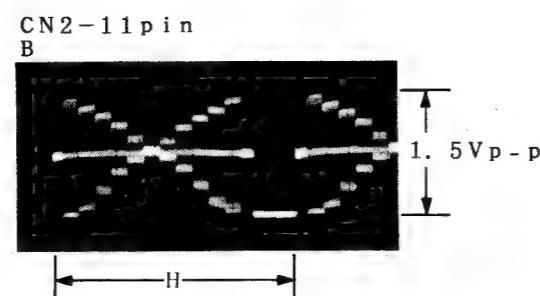
L1	B-9
L2	B-8
L4	H-9
L5	H-8
L6	F-8

DXC-537 (J, U C)
DXC-537P (E K)

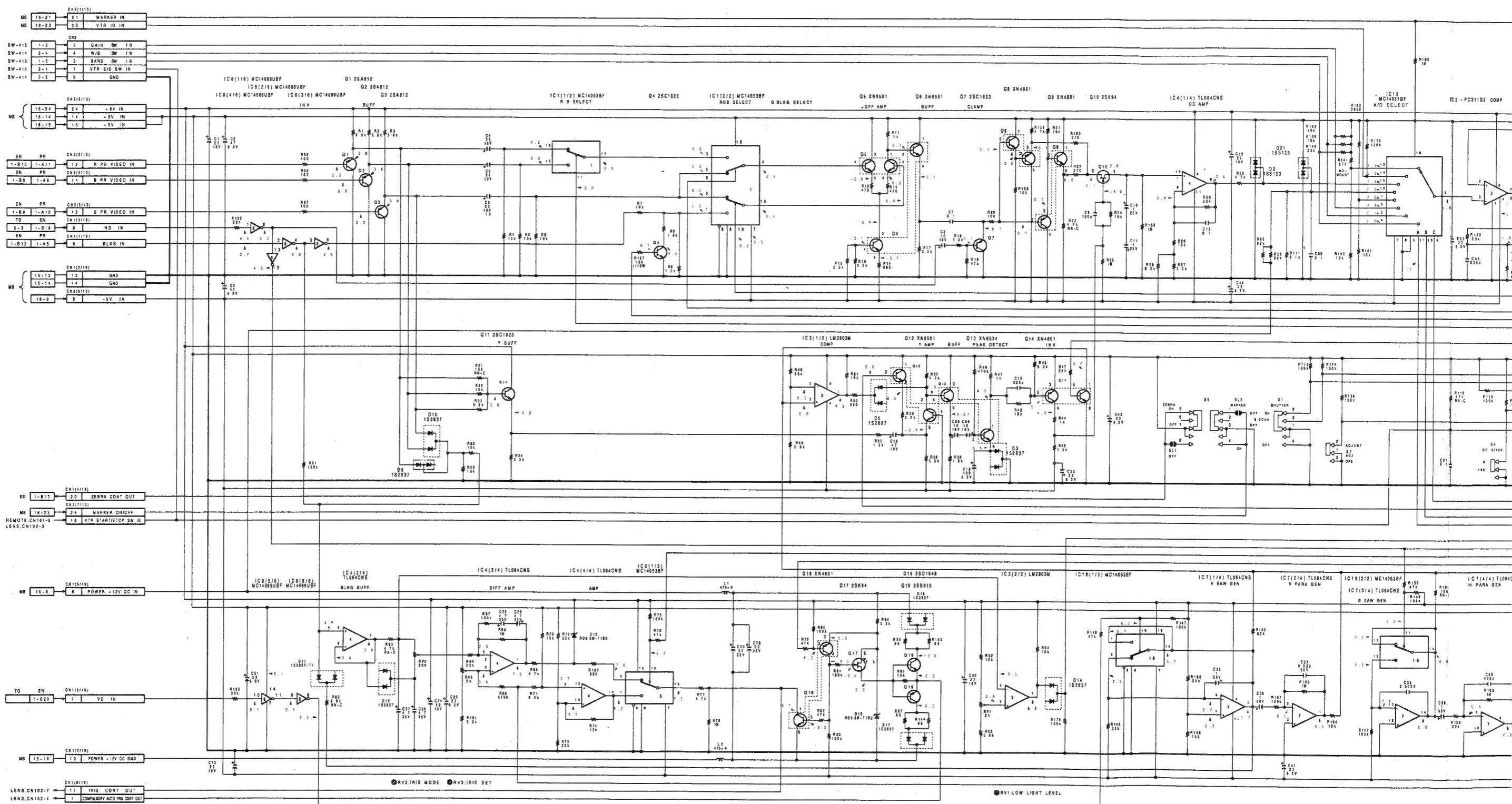
AT-59 BOARD

NOTE :

1. All voltage are DC, measured with a digital voltmeter.
 2. All waveforms are taken and DC voltage is measured in condition below.
- Connect the camera adapter CA-537P to the camera.
 - Shoot the grayscale chart. Ajust lens iris so that a white level is 700mV on the waveform monitor.
 - OUTPUT : CAM
 - GAIN : 0 dB
 - WHITE BAL : PRE
 - SHUTTER : OFF
 - ZEBRA MARKER : OFF OFF
 - PHASE : 0°



AT-59 BOARD



DXC-537 (J, U C)
DXC-537P (E K)

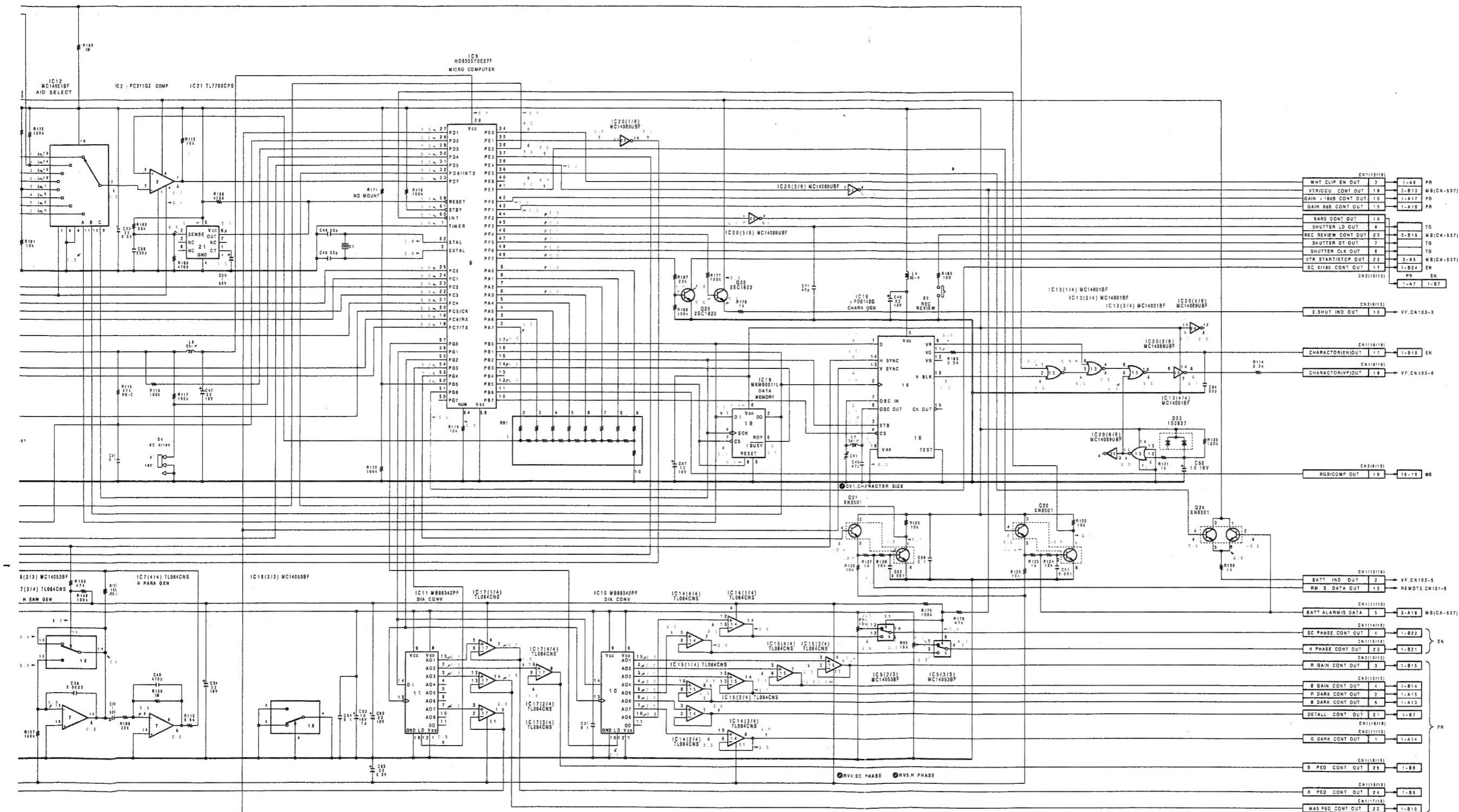
A

B

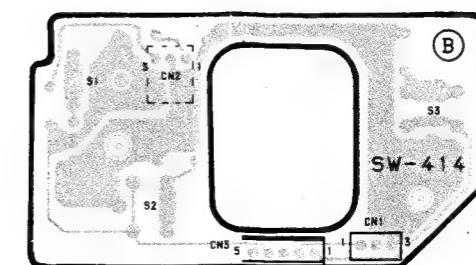
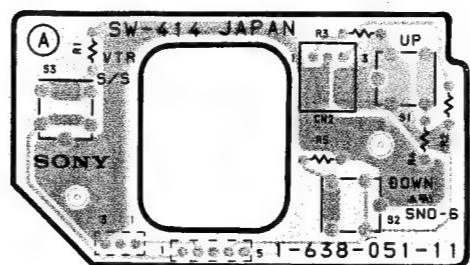
1

6

H

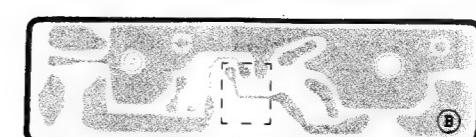
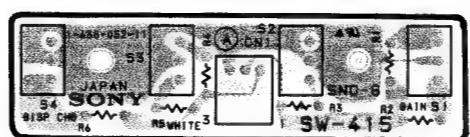


SW-414 BOARD



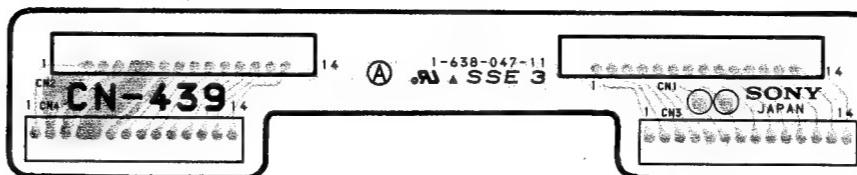
1-638-051-11 SOLDERING SIDE

SW-415 BOARD



1-638-052-11 SOLDERING SIDE

CN-439 BOARD



MB-307 BO

MB-307(1-638)

CN1 F - 5

CN2 F - 7

CN3 H - 8

CN4 D - 6

CN5 C - 4

CN6 I - 1

CN7 C - 5

CN8 D - 5

CN9 D - 5

CN10 E - 1

CN11 G - 1

CN12 J - 6

CN13 I - 7

CN14 D - 7

CN15 E - 3

CN16 H - 3

CN19 A - 6

CN20 B - 8

CN21 A - 5

D1 H - 4

D2 C - 7

IC1 B - 8

IC2 E - 2

IC3 A - 6

IC5 H - 1

L1 B - 7

L2 B - 6

L3 D - 3

Q1 B - 8

Q2 G - 5

Q3 B - 8

Q4 B - 7

Q5 B - 6

Q6 A - 7

Q8 H - 2

Q9 H - 2

Q10 H - 2

Q11 I - 2

Q12 I - 2

S1 C - 2

S2 B - 5

VCO1 B - 6

MB-307 BOARD

CN-439, MB-307
SW-414, SW-415 FRAME

CN-439, MB-307
FRAME SW-414, SW-415

S/N J ; 30001 through 30040
UC; 10001 through 10060
EK; 40001 through 40050

MB-307(1-638-050-11)

CN1 F-5
CN2 F-7
CN3 H-8
CN4 D-6
CN5 C-4
CN6 I-1
CN7 C-5
CN8 D-5
CN9 D-5
CN10 E-1
CN11 G-1
CN12 J-6
CN13 I-7
CN14 D-7
CN15 E-3
CN16 H-3
CN19 A-6
CN20 B-8
CN21 A-5

D1 H-4
D2 C-7

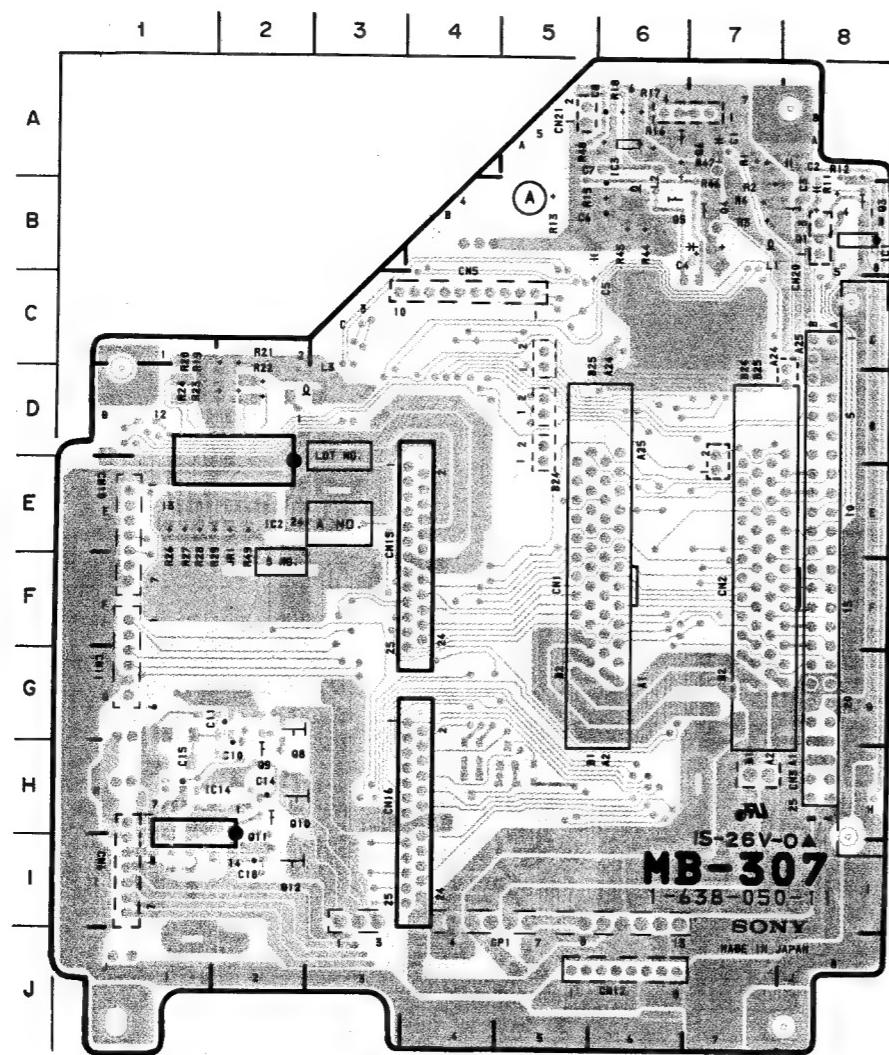
IC1 B-8
IC2 E-2
IC3 A-6
IC5 H-1

L1 B-7
L2 B-6
L3 D-3

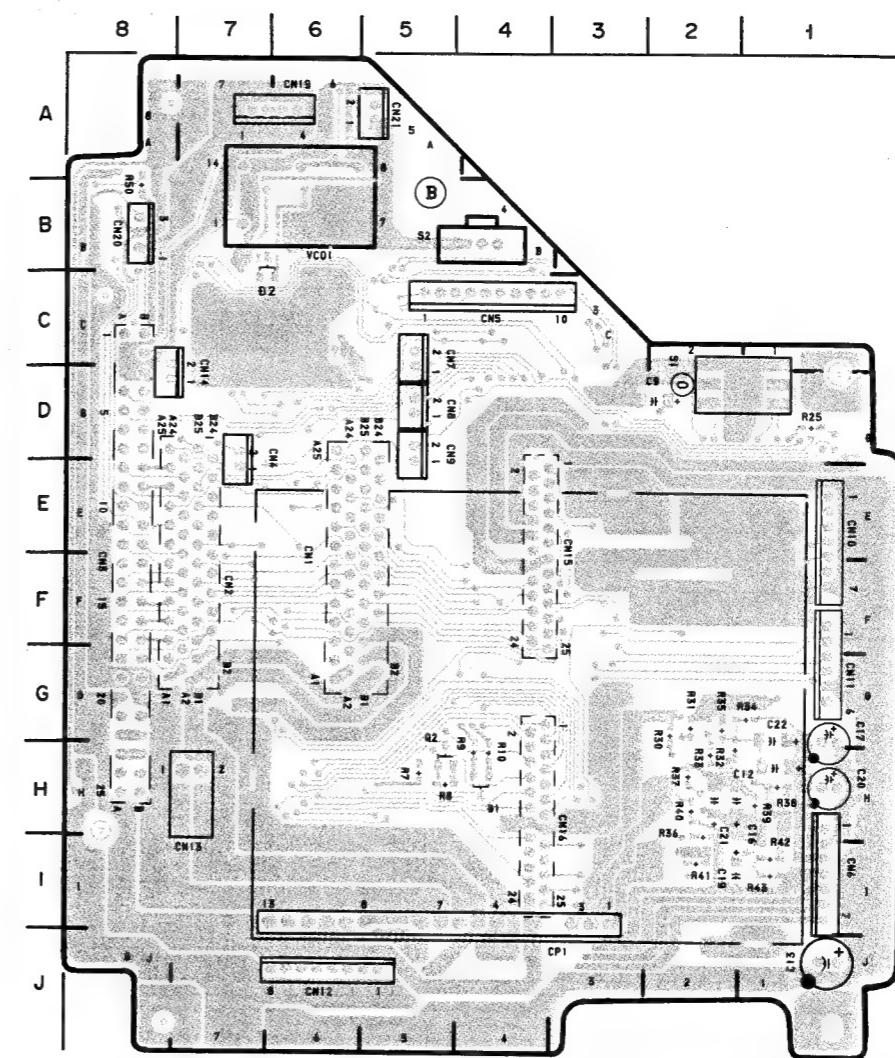
Q1 B-8
Q2 G-5
Q3 B-8
Q4 B-7
Q5 B-6
Q6 A-7
Q8 H-2
Q9 H-2
Q10 H-2
Q11 I-2
Q12 I-2

S1 C-2
S2 B-5

VCO1 B-6



C-69(a)



C-70(a)

MB-307(1-638-050-11)

CN1 F-5
CN2 F-7
CN3 H-8
CN4 D-6
CN5 C-4
CN6 I-1
CN7 C-5
CN8 D-5
CN9 D-5
CN10 E-1
CN11 G-1
CN12 J-6
CN13 I-7
CN14 D-7
CN15 E-3
CN16 H-3
CN19 A-6
CN20 B-8
CN21 A-5

D1 H-4
D2 C-7

IC1 B-8
IC2 E-2
IC3 A-6
IC5 H-1

L1 B-8
L2 B-6
L3 D-3

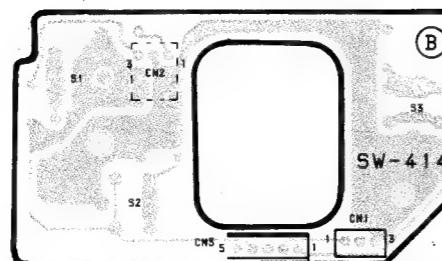
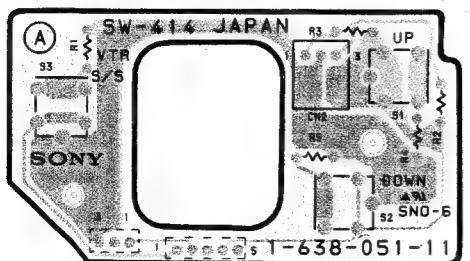
Q1 B-7
Q2 G-5
Q3 B-8
Q4 B-7
Q5 B-6
Q6 A-7
Q8 H-2
Q9 H-2
Q10 H-2
Q11 I-2
Q12 I-2

S1 C-2
S2 B-5

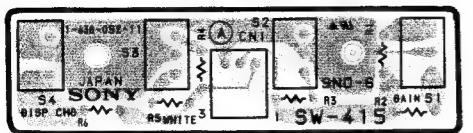
VCO1 B-6

DXC-537 (J, UC)
DXC-537P (EK)

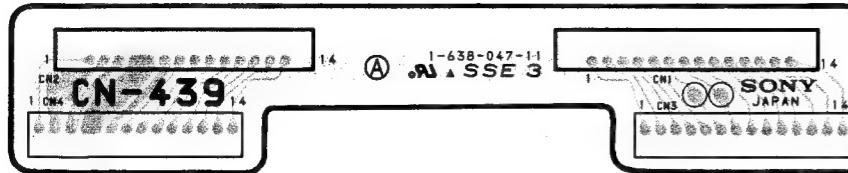
SW-414 BOARD



SW-415 BOARD



CN-439 BOARD



MB-307 BOARD

S/N J ; 30041 and higher
UC; 10061 and higher
EK; 40051 and higher

MB-307(1-638-050-12)

CN1 F-5
CN2 F-7
CN3 H-8
CN4 D-6
CN5 C-4
CN6 I-1
CN7 C-5
CN8 D-5
CN9 D-5
CN10 E-1
CN11 G-1
CN12 J-6
CN13 I-7
CN14 D-7
CN15 E-3
CN16 H-3
CN19 A-6
CN20 B-8
CN21 A-5

D1 H-4
D2 C-7

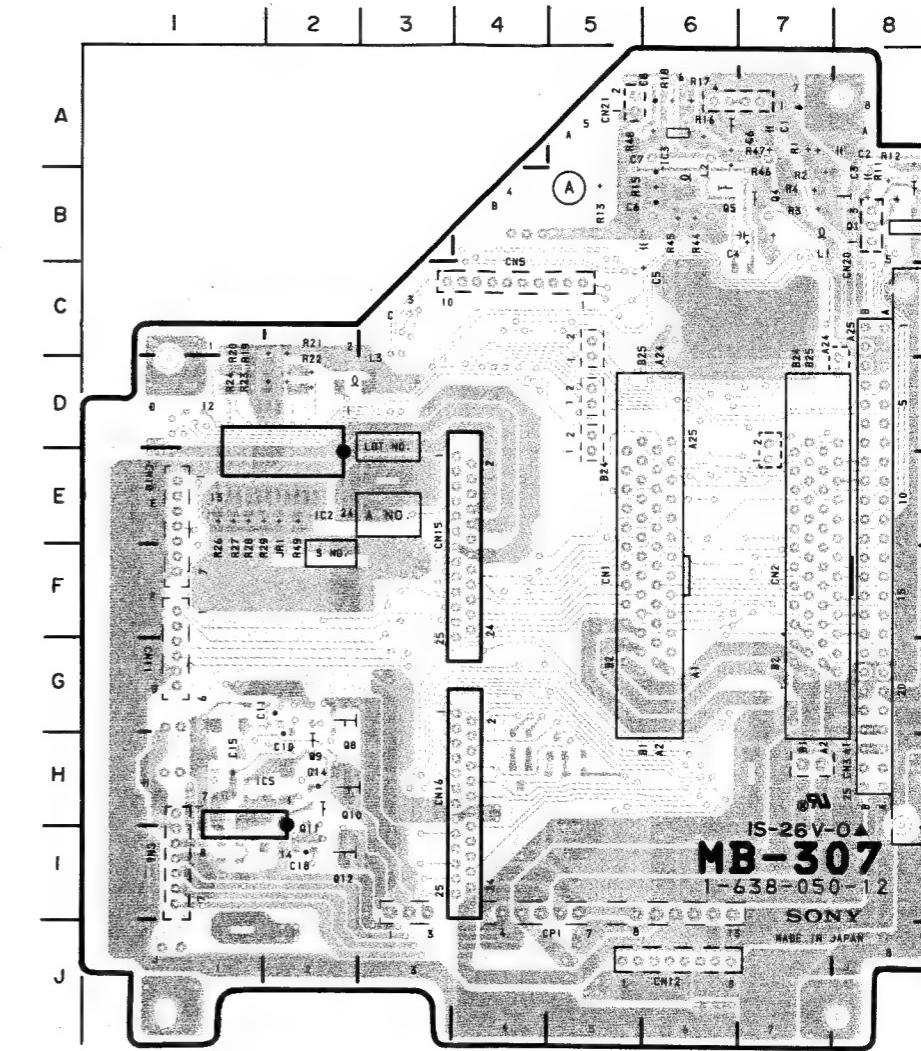
IC1 B-8
IC2 E-2
IC3 A-6
IC5 H-1

L1 B-7
L2 B-6
L3 D-3

Q1 B-8
Q2 G-5
Q3 B-8
Q4 B-7
Q5 B-6
Q6 A-7
Q8 H-2
Q9 H-2
Q10 H-2
Q11 I-2
Q12 I-2

S1 C-2
S2 B-5

VCO1 B-6



MB-307 BOARD

S/N J ; 30041 and higher
UC; 10061 and higher
EK; 40051 and higher

MB-307(1-638-050-12)

CN1 F-5
CN2 F-7
CN3 H-8
CN4 D-6
CN5 C-4
CN6 I-1
CN7 C-5
CN8 D-5
CN9 D-5
CN10 E-1
CN11 G-1
CN12 J-6
CN13 I-7
CN14 D-7
CN15 E-3
CN16 H-3
CN19 A-6
CN20 B-8
CN21 A-5

D1 H-4
D2 C-7

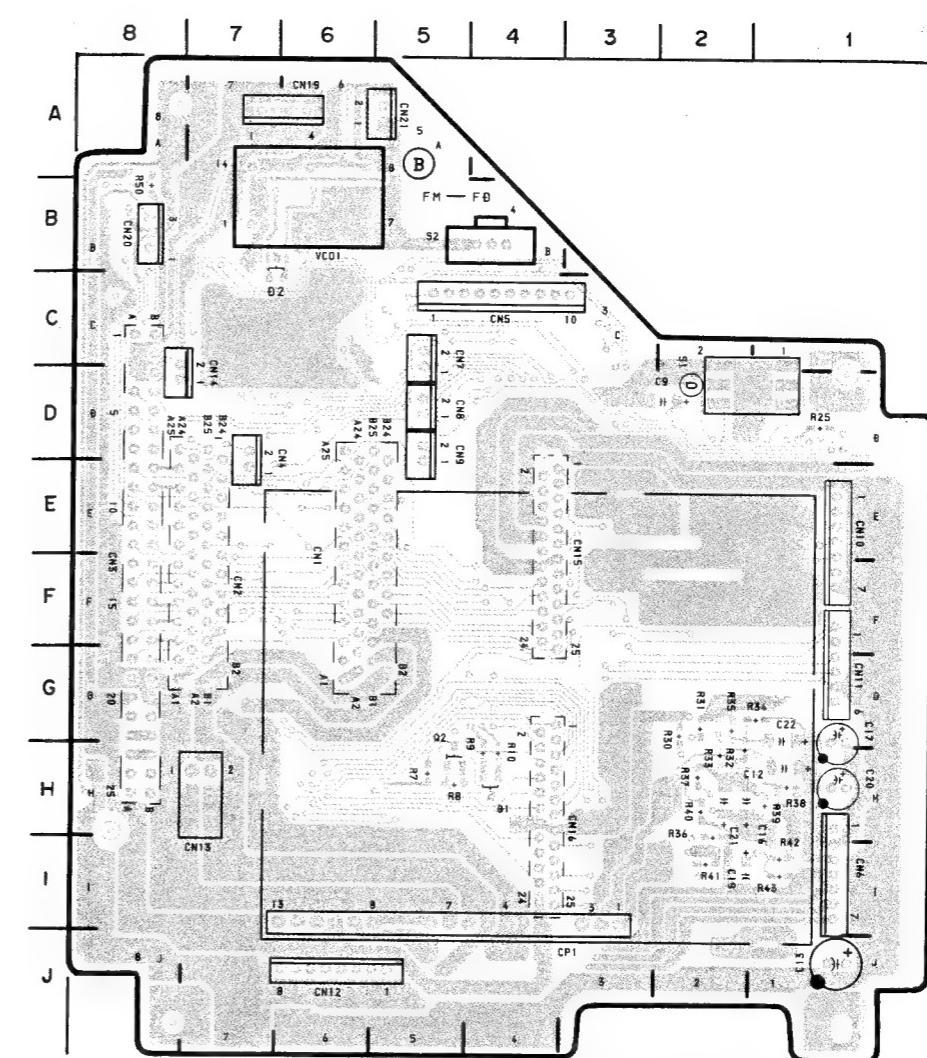
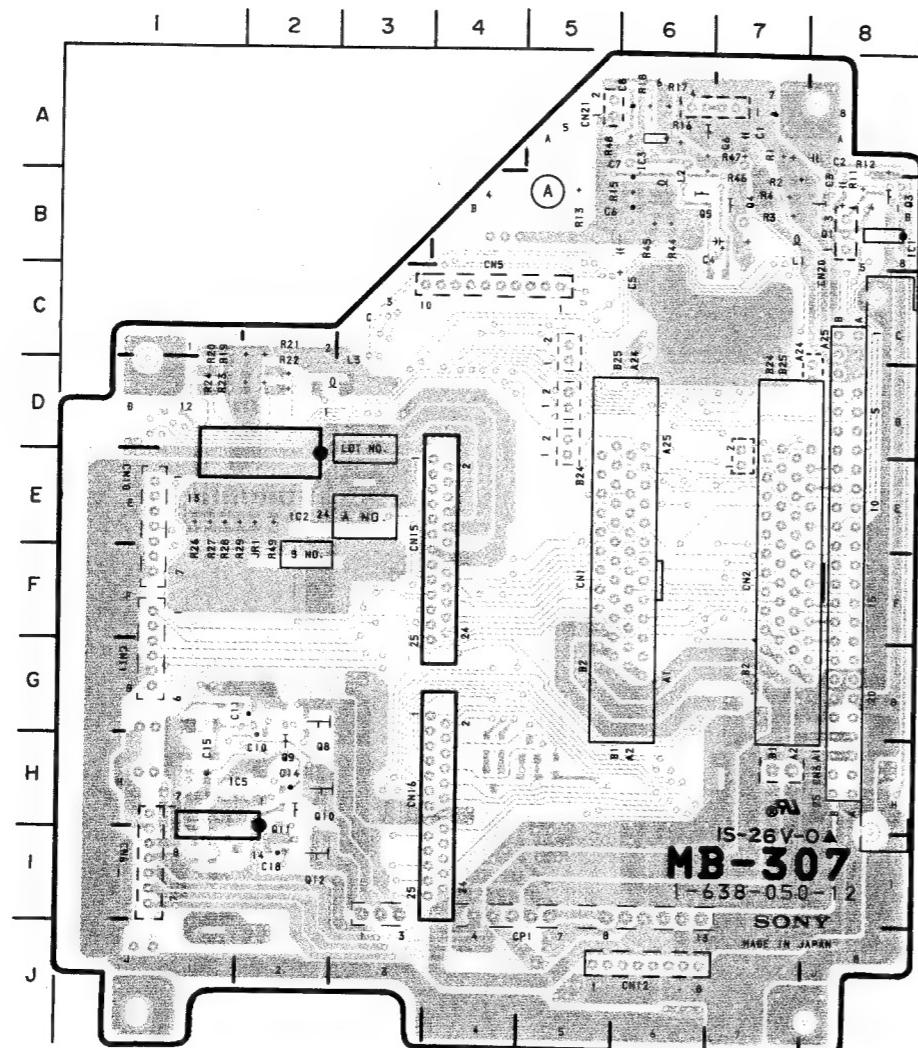
IC1 B-8
IC2 E-2
IC3 A-6
IC5 H-1

L1 B-7
L2 B-6
L3 D-3

Q1 B-8
Q2 G-5
Q3 B-8
Q4 B-7
Q5 B-6
Q6 A-7
Q8 H-2
Q9 H-2
Q10 H-2
Q11 I-2
Q12 I-2

S1 C-2
S2 B-5

VCO1 B-6



MB-307(1-638-050-12)

CN1 F-5
CN2 F-7
CN3 H-8
CN4 D-6
CN5 C-4
CN6 I-1
CN7 C-5
CN8 D-5
CN9 D-5
CN10 E-1
CN11 G-1
CN12 J-6
CN13 I-7
CN14 D-7
CN15 E-3
CN16 H-3
CN19 A-6
CN20 B-8
CN21 A-5

D1 H-4
D2 C-7

IC1 B-8
IC2 E-2
IC3 A-6
IC5 H-1

L1 B-7
L2 B-6
L3 D-3

Q1 B-8
Q2 G-5
Q3 B-8
Q4 B-7
Q5 B-6
Q6 A-7
Q8 H-2
Q9 H-2
Q10 H-2
Q11 I-2
Q12 I-2

S1 C-2
S2 B-5

VCO1 B-6

1-638-050-12 SOLDERING SIDE

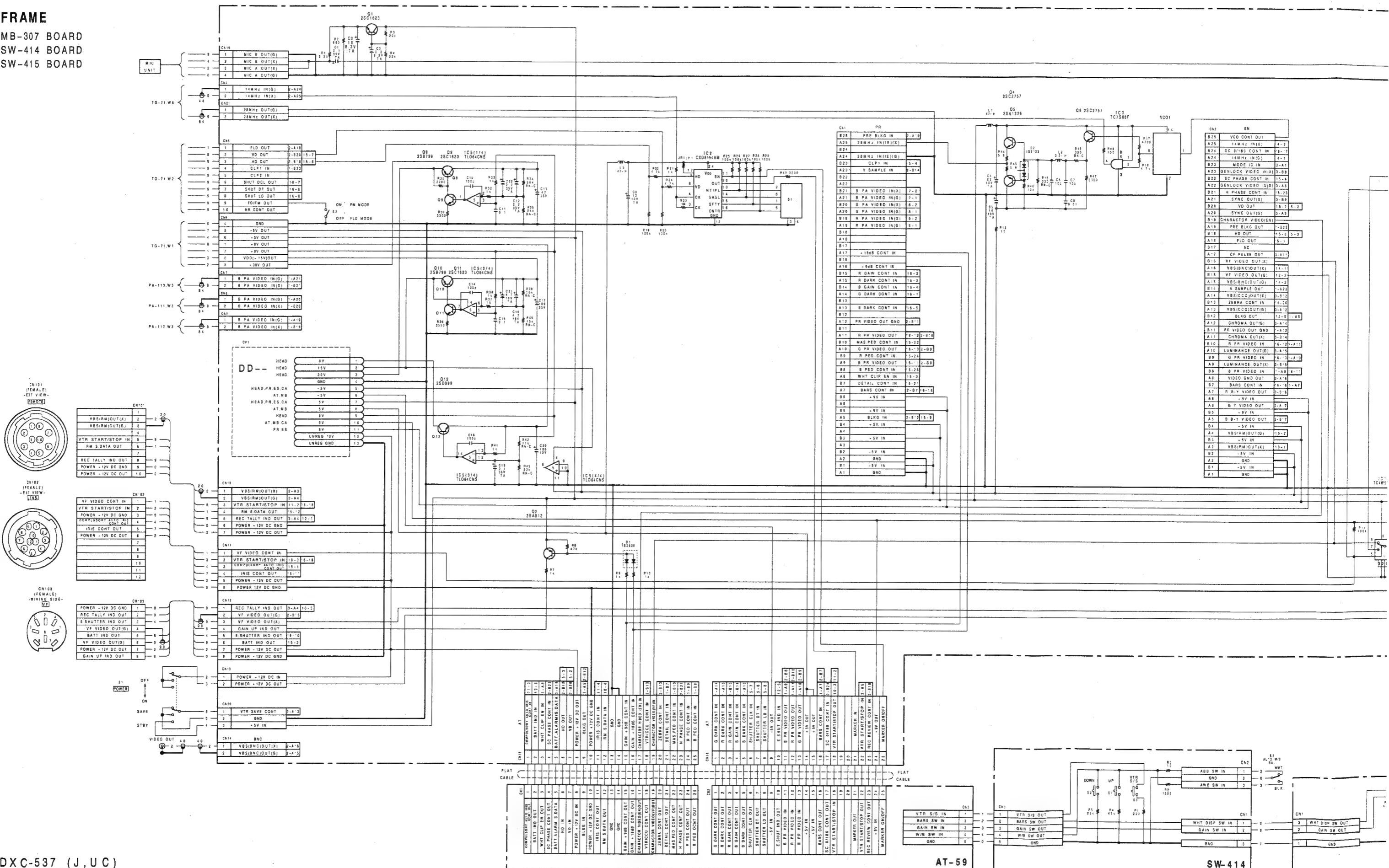
C-69(b)

C-70(b)

DXC-537 (J, UC)
DXC-537P (EK)

FRAME

MB-307 BOARD
SW-414 BOARD
SW-415 BOARD



DXC-537 (J, U C)
DXC-537P(EK)

C-71

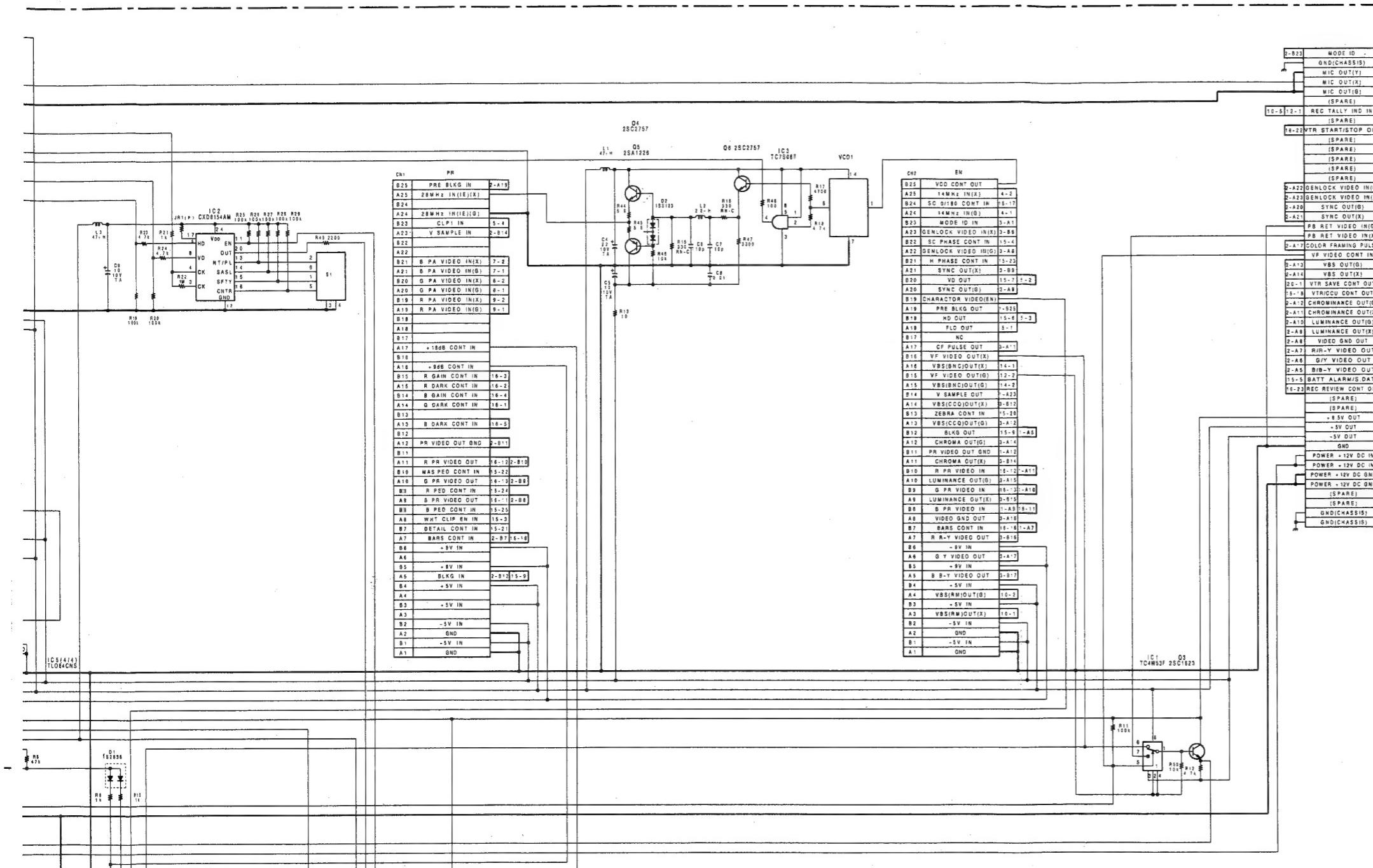
A

B

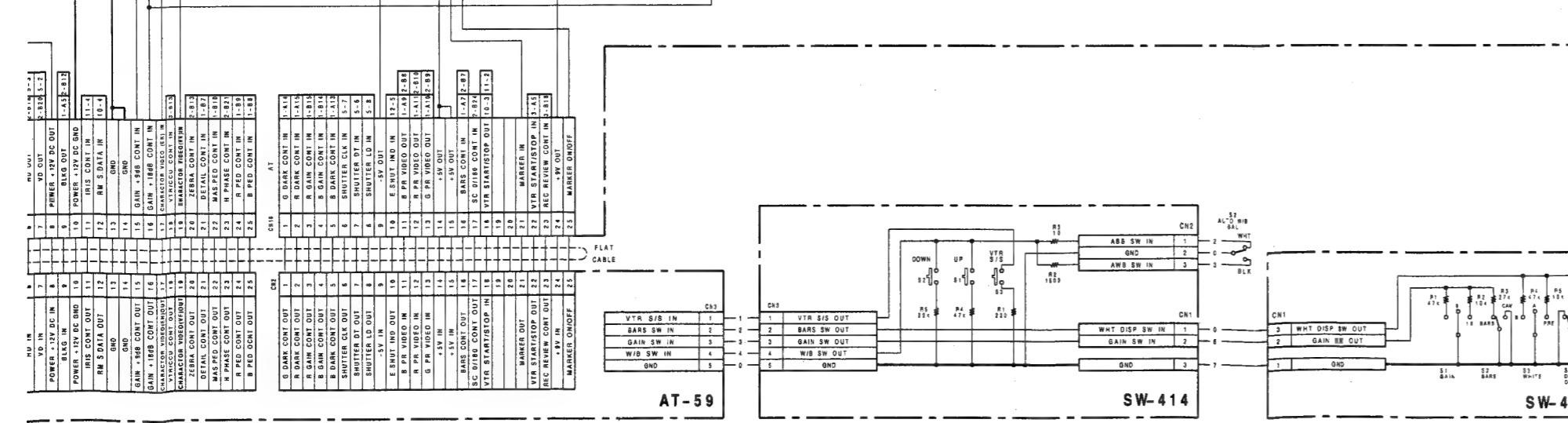
6

SW-4

1



MB - 3



1-59

SW-

SW-

FRAME WIRING

MB-307 BOARD

SW-414 BOARD

SW-415 BOARD

DXC-537 (J, U,C)

DXC-537P(EK)

	CN3	CN4	CN3	CN4
FLO IN	1	1	1	1
SG CHROMA OUT(X)	2	2	2	2
SG CHROMA OUT(G)	3	3	3	3
CF PULSE IN	4	4	4	4
GND	5	5	5	5
SC IN (X)	6	6	6	6
SC IN (G)	7	7	7	7
BT IN	8	8	8	8
SYNC IN	9	9	9	9
CLK IN(B)	10	10	10	10
CLK IN(X)	11	11	11	11
YD IN	12	12	12	12
HD IN	13	13	13	13
GND	14	14	14	14

	CN2	CN2	CN4	CN2
L ALT IN	1	1	1	1
-SY OUT	2	2	2	2
-BY OUT	3	3	3	3
GND	4	4	4	4
GND	5	5	5	5
-SY IN	6	6	6	6
14MHz OUT(B)	7	7	7	7
14MHz OUT(X)	8	8	8	8
H PHASE CONT OUT	9	9	9	9
SC PHASE CONT OUT	10	10	10	10
SC 0100 CONT IN	11	11	11	11
GENLOCK VIDEO OUT(B)	12	12	12	12
GENLOCK VIDEO OUT(X)	13	13	13	13
VCO CONT IN	14	14	14	14

EN-95 **CN-439** **SG-171**

C-73

B -

SECTION D SPARE PARTS

PARTS INFORMATION

1. Safety Related Component Warning

Components identified by shading marked with  on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "**accommodating the improved parts and/or engineering changes**" or "**standardization of genuine parts.**" This manual's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our engineering department, refer to SONY service bulletins and service manual supplements.
3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.
5. All capacitors are in micro farads unless otherwise specified.
All inductors are in micro henries unless otherwise specified.
All resistors are in ohms.

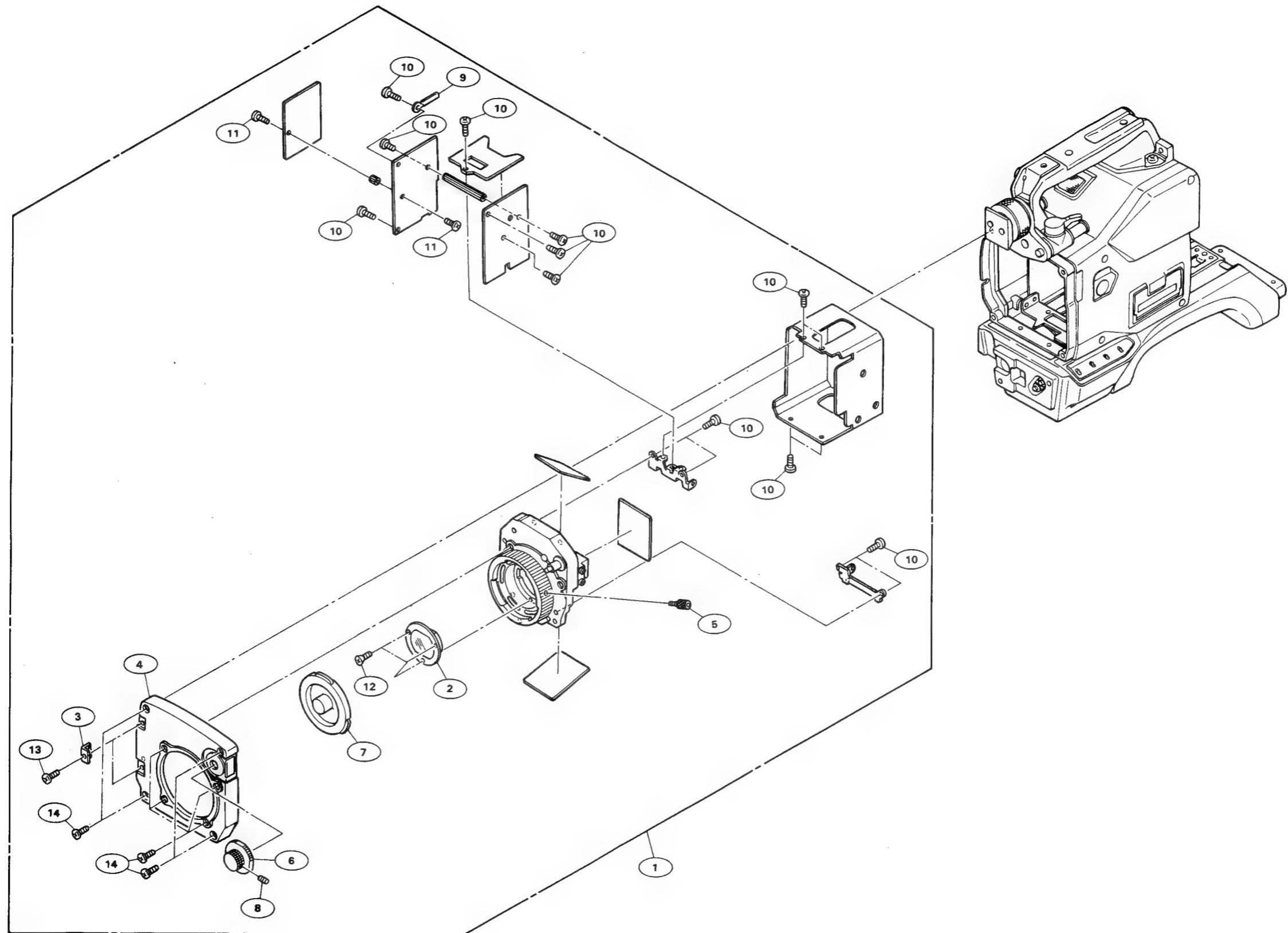
EXPLODED VIEW

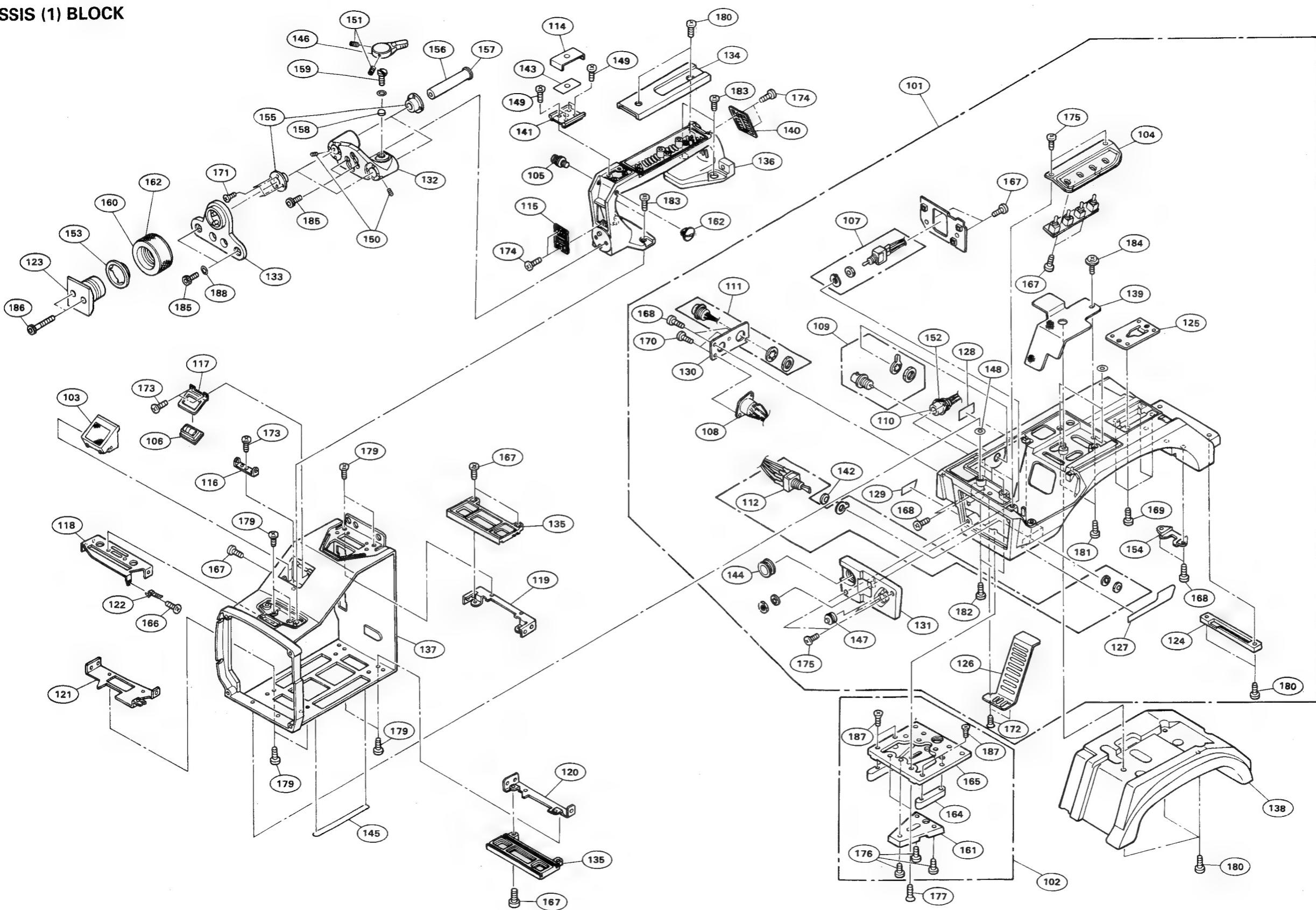
----- CCD BLOCK -----

No.	Part No.	SP Description
1	A-7575-164-A	s CCD UNIT-C537 (N) (for DXC-537)
	A-7575-165-A	s CCD UNIT-C537P (P) (for DXC-537P)
2	1-547-474-11	o FILTER UNIT, OPTICS
3	3-168-347-01	o HOLDER, CABLE
4	3-168-368-01	o PANEL, FRONT
5	3-678-629-00	s LEVER, MOUNT
6	3-688-781-02	s KNOB, FILTER
7	3-699-048-01	s CAP, MOUNT
8	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4
9	3-701-822-00	o HOLDER, WIRE
10	7-621-770-87	s SCREW +B 2.6X5
11	7-621-775-08	s SCREW +B 2.6X3
12	7-627-452-38	s SCREW, PRECISION +K 2X5
13	7-627-556-28	s SCREW +P 2.6X3.5
14	7-682-547-09	s SCREW +B 3X6
•		

CCD BLOCK CCD BLOCK

CCD BLOCK



CHASSIS (1) BLOCK**CHASSIS (1) BLOCK****CHASSIS (1) BLOCK**

CHASSIS (1) BLOCK

No.	Part No.	SP Description	No.	Part No.	SP Description
101	A-7420-201-A	o CHASSIS ASSY, BASE	161	3-716-391-01	o WEDGE, MOUNTING
102	A-7612-352-A	s SHOE (A) ASSY, V	162	3-720-919-01	o RUBBER, LOCK RING
103	X-3165-705-1	o GRILLE ASSY, MICROPHONE	163	3-725-907-01	s BUSHING, BLIND
104	X-3165-716-1	o PANEL ASSY, SIDE SW	164	3-729-064-01	o GUARD (A), CAMERA SHOE
105	X-3744-307-1	s SUSPENSION ASSY	165	3-729-065-01	s SHOE (A), CAMERA
106	1-542-126-31	s MICROPHONE UNIT	166	7-621-772-08	s SCREW +B 2X3
107	1-554-486-00	s SWITCH, TOGGLE	167	7-621-773-86	s SCREW +B 2.6X4
108	1-561-320-00	s SOCKET, DIN 8P	168	7-621-773-95	s SCREW +B 2.6X6
109	1-561-781-21	s CONNECTOR, BNC "VIDEO OUT"	169	7-621-775-08	s SCREW +B 2.6X3
110	1-562-221-21	s CONNECTOR, 12P "LENS"	170	7-621-775-20	s SCREW +B 2.6X5
111	1-562-782-21	s CONNECTOR, 10P "REMOTE VF"	171	7-627-452-58	s SCREW +K 2X6 TYPE1
112	1-572-659-11	s SWITCH, TOGGLE "POWER"	172	7-627-454-28	s SCREW, PRECISION +K 2.6X4.5
113	1-948-168-11	o HARNESS (CN)	173	7-627-556-37	s SCREW, PRECISION +P2.6X4 TYPE 1
114	2-277-468-01	o PLATE, ORNAMENTAL, CAMERA SHOE	174	7-627-556-38	s SCREW +P 2.6X4.0
115	3-168-324-01	o LID (B), HANDLE	175	7-627-556-58	s PRECISION SCREW +P 2.6X5 TYPE1
116	3-168-328-01	o BRACKET, MICROPHONE COVER	176	7-682-160-09	s SCREW +P 4X6
117	3-168-329-01	o BRACKET, MICROPHONE	177	7-682-261-09	s SCREW +K 4X8
118	3-168-330-01	o BRACKET (FRONT UPPER), PC BOARD	178	7-682-546-04	s SCREW +B 3X5
119	3-168-331-01	o BRACKET (REAR UPPER), PC BOARD	179	7-682-547-04	s SCREW +B 3X6
120	3-168-332-01	o BRACKET (REAR LOWER), PC BOARD	180	7-682-547-09	s SCREW +B 3X6
121	3-168-333-01	o BRACKET (FRONT LOWER), PC BOARD	181	7-682-561-04	s SCREW +B 4X8
122	3-168-334-01	o SPRING, AT	182	7-682-664-09	s SCREW +PS 4X14
123	3-168-335-01	o SHOE (2), VF SLIDE	183	7-682-563-09	s SCREW +B 4X12
124	3-168-337-01	s FOOT	184	7-682-947-01	s SCREW +PSW 3X6
125	3-168-338-01	s SHOE, STOPPER	185	7-683-419-04	s BOLT, HEXAGON SOCKET 4X8
126	3-168-339-01	o COVER, BOTTOM	186	7-683-427-04	s BOLT, HEXAGON SOCKET 4X25
127	3-168-340-01	o LABEL (POWER)	187	7-685-234-19	s SCREW +KTP 2.6X8 TYPE2 N-S
128	3-168-341-01	o LABEL (VIDEO OUT)	188	7-688-004-02	s W 4, SMALL
129	3-168-342-01	o LABEL (LENS)			
130	3-168-355-01	o PLATE, CN			
131	3-168-360-01	o PANEL, FRONT SW			
132	3-168-361-02	o TABLE (2), FIXED, VF SLIDE			
133	3-168-362-01	o TABLE (2), FIXED, VF SHOE			
134	3-168-363-01	o LID (A), HANDLE			
135	3-168-364-01	o RAIL, PC BOARD			
136	3-168-369-01	o HANDLE			
137	3-168-370-01	o CABINET			
138	3-168-372-01	s PAD, SHOULDER			
139	3-169-037-01	o FILTER			
140	3-169-268-01	o LID (C), HANDLE			
141	3-657-700-00	s BRACKET, ACCESSORY			
142	3-669-117-21	o SPACER, MOTOR			
143	3-672-213-00	o SHEET, ADHESIVE			
144	3-672-221-02	s PACKING, CONTROL			
145	3-672-253-11	o RUBBER, CONDUCTIVE			
146	3-673-046-00	s LEVER, LOCK			
147	3-676-244-00	s COVER, SWITCH			
148	3-687-116-01	o WASHER (4), STOPPER			
149	3-689-039-11	s BOLT (M2X6), HOLE, HEXAGON			
150	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4			
151	3-701-508-00	s SET SCREW, DOUBLE POINT 3X6			
152	3-710-002-01	o BRACKET			
153	3-710-018-01	o COLLAR, SLIDE			
154	3-711-703-01	o STOPPER			
155	3-711-790-01	o SPACER (A)			
156	3-711-791-01	o ARM			
157	3-711-792-01	o SCREW			
158	3-711-793-01	o CUSHION (STOPPER)			
159	3-711-794-01	o PIN, STOPPER			
160	3-711-795-11	o RING (B), LOCK			

CHASSIS (2) BLOCK

No. Part No. SP Description

201 A-7420-205-A o PLATE (L) ASSY, SIDE
202 A-7420-206-A o PLATE (R) ASSY, SIDE
203 A-7515-282-A o MOUNTED CIRCUIT BOARD, AT-59
204 A-7515-283-A o MOUNTED CIRCUIT BOARD (N), MB-307
A-7515-284-A o MOUNTED CIRCUIT BOARD (P), MB-307
A-7515-285-A o MOUNTED CIRCUIT BOARD (U), EN-95
A-7515-287-A o MOUNTED CIRCUIT BOARD (P), EN-95
206 A-7515-288-A o MOUNTED CIRCUIT BOARD (N), SG-171
A-7515-289-A o MOUNTED CIRCUIT BOARD (P), SG-171
207 A-7515-290-A o MOUNTED CIRCUIT BOARD (U), PR-143
A-7515-291-A o MOUNTED CIRCUIT BOARD (JEK), PR-143
208 A-7515-292-A o MOUNTED CIRCUIT BOARD (N), IE-28
A-7515-293-A o MOUNTED CIRCUIT BOARD (P), IE-28
209 X-3165-719-1 o LID ASSY, SIDE SW
210 1-590-489-11 s WIRE, FLAT TYPE (25 CORE)

211 3-167-445-01 s KNOB, SWITCH
212 3-168-350-01 o PLATE, SIDE PLATE
213 3-168-353-01 o BRACKET (UPPER), AT
214 3-168-354-01 o BRACKET (LOWER), AT
215 3-168-357-01 s PAD, PLATE, SIDE

216 3-672-221-02 s PACKING, CONTROL
217 3-672-253-11 o RUBBER, CONDUCTIVE
218 3-678-607-02 o LABEL, FILTER
219 3-701-822-00 o HOLDER, WIRE
220 7-621-775-08 s SCREW +B 2.6X3

221 7-623-923-11 s WASHER 2.6, NYLONE
222 7-624-200-01 s NUT, PUSH 1.5
223 7-627-450-58 s SCREW, PRECISION -K 1.7X3
224 7-682-546-04 s SCREW +B 3X5
225 7-682-548-09 s SCREW +B 3X8

226 7-682-550-09 s SCREW +B 3X12
227 7-682-553-09 s SCREW +B 3X20
228 7-685-533-14 s SCREW +BTP 2.6X6 TYPE2 N-S

ELECTRICAL PARTS

CAPACITOR, CHIP CERAMIC

Part No.	SP Description
1-163-083-00	s CAP, CHIP CERAMIC 1pF +-0.25pF 50V
1-163-085-00	s CAP, CHIP CERAMIC 2pF +-0.25pF 50V
1-163-087-00	s CAP, CHIP CERAMIC 4pF +-0.25pF 50V
1-163-089-00	s CAP, CHIP CERAMIC 6pF +-0.5pF 50V
1-163-091-00	s CAP, CHIP CERAMIC 8pF +-0.5pF 50V
1-163-093-00	s CAP, CHIP CERAMIC 10pF 5% 50V
1-163-097-00	s CAP, CHIP CERAMIC 15pF 5% 50V
1-163-101-00	s CAP, CHIP CERAMIC 22pF 5% 50V
1-163-105-00	s CAP, CHIP CERAMIC 33pF 5% 50V
1-163-109-00	s CAP, CHIP CERAMIC 47pF 5% 50V
1-163-113-00	s CAP, CHIP CERAMIC 68pF 5% 50V
1-163-117-00	s CAP, CHIP CERAMIC 100pF 5% 50V
1-163-121-00	s CAP, CHIP CERAMIC 150pF 5% 50V
1-163-125-00	s CAP, CHIP CERAMIC 220pF 5% 50V
1-163-129-00	s CAP, CHIP CERAMIC 330pF 5% 50V
1-163-133-00	s CAP, CHIP CERAMIC 470pF 5% 50V
1-163-137-00	s CAP, CHIP CERAMIC 680pF 5% 50V
1-163-141-00	s CAP, CHIP CERAMIC 1000pF 5% 50V
1-163-145-00	s CAP, CHIP CERAMIC 1500pF 10% 50V
1-164-161-11	s CAP, CHIP CERAMIC 2200pF 10% 100V
1-164-182-11	s CAP, CHIP CERAMIC 3300pF 10% 100V
1-163-017-00	s CAP, CHIP CERAMIC 4700pF 10% 50V
1-163-019-00	s CAP, CHIP CERAMIC 6800pF 10% 50V
1-164-232-11	s CAP, CHIP CERAMIC 0.01 20% 100V
1-163-023-00	s CAP, CHIP CERAMIC 0.015 10% 50V
1-163-034-00	s CAP, CHIP CERAMIC 0.033 50V
1-163-035-00	s CAP, CHIP CERAMIC 0.047 50V
1-163-036-00	s CAP, CHIP CERAMIC 0.068 50V
1-163-038-00	s CAP, CHIP CERAMIC 0.1 50V

RESISTOR, CHIP

Part No.	SP Description
1-216-295-00	s RES, CHIP 0 5% 1/10W
1-216-298-00	s RES, CHIP 2.2 5% 1/10W
1-216-302-00	s RES, CHIP 2.7 5% 1/10W
1-216-304-11	s RES, CHIP 3.3 5% 1/10W
1-216-306-11	s RES, CHIP 3.9 5% 1/10W
1-216-308-00	s RES, CHIP 4.7 5% 1/10W
1-216-309-00	s RES, CHIP 5.6 5% 1/10W
1-216-311-00	s RES, CHIP 6.8 5% 1/10W
1-216-313-00	s RES, CHIP 8.2 5% 1/10W
1-216-001-00	s RES, CHIP 10 5% 1/10W
1-216-003-11	s RES, CHIP 12 5% 1/10W
1-216-005-00	s RES, CHIP 15 5% 1/10W
1-216-007-00	s RES, CHIP 18 5% 1/10W
1-216-009-00	s RES, CHIP 22 5% 1/10W
1-216-011-00	s RES, CHIP 27 5% 1/10W
1-216-013-00	s RES, CHIP 33 5% 1/10W
1-216-015-00	s RES, CHIP 39 5% 1/10W
1-216-017-00	s RES, CHIP 47 5% 1/10W
1-216-019-00	s RES, CHIP 56 5% 1/10W
1-216-021-00	s RES, CHIP 68 5% 1/10W
1-216-023-00	s RES, CHIP 82 5% 1/10W
1-216-025-00	s RES, CHIP 100 5% 1/10W
1-216-027-00	s RES, CHIP 120 5% 1/10W
1-216-029-00	s RES, CHIP 150 5% 1/10W
1-216-031-00	s RES, CHIP 180 5% 1/10W
1-216-033-00	s RES, CHIP 220 5% 1/10W
1-216-035-00	s RES, CHIP 270 5% 1/10W
1-216-037-00	s RES, CHIP 330 5% 1/10W
1-216-039-00	s RES, CHIP 390 5% 1/10W
1-216-041-00	s RES, CHIP 470 5% 1/10W
1-216-043-00	s RES, CHIP 560 5% 1/10W
1-216-045-00	s RES, CHIP 680 5% 1/10W
1-216-047-00	s RES, CHIP 820 5% 1/10W
1-216-049-00	s RES, CHIP 1k 5% 1/10W
1-216-051-00	s RES, CHIP 1.2k 5% 1/10W
1-216-053-00	s RES, CHIP 1.5k 5% 1/10W
1-216-055-00	s RES, CHIP 1.8k 5% 1/10W
1-216-057-00	s RES, CHIP 2.2k 5% 1/10W
1-216-059-00	s RES, CHIP 2.7k 5% 1/10W
1-216-061-00	s RES, CHIP 3.3k 5% 1/10W
1-216-063-00	s RES, CHIP 3.9k 5% 1/10W
1-216-065-00	s RES, CHIP 4.7k 5% 1/10W
1-216-067-00	s RES, CHIP 5.6k 5% 1/10W
1-216-069-00	s RES, CHIP 6.8k 5% 1/10W
1-216-071-00	s RES, CHIP 8.2k 5% 1/10W
1-216-073-00	s RES, CHIP 10k 5% 1/10W
1-216-075-00	s RES, CHIP 12k 5% 1/10W
1-216-077-00	s RES, CHIP 15k 5% 1/10W
1-216-079-00	s RES, CHIP 18k 5% 1/10W
1-216-081-00	s RES, CHIP 22k 5% 1/10W
1-216-083-00	s RES, CHIP 27k 5% 1/10W
1-216-085-00	s RES, CHIP 33k 5% 1/10W
1-216-748-11	s RES, CHIP 39k 5% 1/10W
1-216-089-00	s RES, CHIP 47k 5% 1/10W
1-216-091-00	s RES, CHIP 56k 5% 1/10W

RESISTOR, CHIP

Part No. SP Description

1-216-093-00 s RES, CHIP 68k 5% 1/10W
1-216-095-00 s RES, CHIP 82k 5% 1/10W
1-216-097-00 s RES, CHIP 100k 5% 1/10W
1-216-099-00 s RES, CHIP 120k 5% 1/10W
1-216-101-00 s RES, CHIP 150k 5% 1/10W

1-216-103-00 s RES, CHIP 180k 5% 1/10W
1-216-105-00 s RES, CHIP 220k 5% 1/10W
1-216-107-00 s RES, CHIP 270k 5% 1/10W
1-216-109-00 s RES, CHIP 330k 5% 1/10W
1-216-111-00 s RES, CHIP 390k 5% 1/10W

1-216-113-00 s RES, CHIP 470k 5% 1/10W
1-216-115-00 s RES, CHIP 560k 5% 1/10W
1-216-117-00 s RES, CHIP 680k 5% 1/10W
1-216-119-00 s RES, CHIP 820k 5% 1/10W
1-216-121-00 s RES, CHIP 1.0M 5% 1/10W

1-216-123-11 s RES, CHIP 1.2M 5% 1/10W
1-216-125-00 s RES, CHIP 1.5M 5% 1/10W
1-216-127-11 s RES, CHIP 1.8M 5% 1/10W
1-216-129-00 s RES, CHIP 2.2M 5% 1/10W
1-216-131-11 s RES, CHIP 2.7M 5% 1/10W

1-216-133-00 s RES, CHIP 3.3M 5% 1/10W

AT-59 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-282-A	MOUNTED CIRCUIT BOARD, AT-59
3pcs	3-167-445-02	KNOB, SWITCH
1pc	3-168-353-01	BRACKET (UPPER), AT
1pc	3-168-354-01	BRACKET (LOWER), AT
1pc	7-621-772-18	SCREW +B 2X4
1pc	8-729-175-73	TRANSISTOR 2SC2757
C1	1-126-395-11	ELECT, CHIP 22uF 20% 16V
C2	1-126-391-11	ELECT, CHIP 47uF 20% 6.3V
C3	1-126-391-11	ELECT, CHIP 47uF 20% 6.3V
C4	1-126-393-11	ELECT 33uF 20% 10V
C5	1-126-393-11	ELECT 33uF 20% 10V
C6	1-126-393-11	ELECT 33uF 20% 10V
C8	1-126-394-11	ELECT, CHIP 10uF 20% 16V
C9	1-163-251-11	CERAMIC 100PF 5% 50V
C10	1-135-177-21	TANTALUM CHIP 1uF 10% 25V
C11	1-135-177-21	TANTALUM CHIP 1uF 10% 25V
C13	1-126-395-11	ELECT, CHIP 22uF 20% 16V
C14	1-126-390-11	ELECT, CHIP 22uF 20% 6.3V
C16	1-126-396-11	ELECT, CHIP 47uF 20% 16V
C18	1-126-392-11	ELECT, CHIP 100uF 20% 6.3V
C20	1-126-395-11	ELECT, CHIP 22uF 20% 16V
C21	1-126-390-11	ELECT, CHIP 22uF 20% 6.3V
C22	1-126-390-11	ELECT, CHIP 22uF 20% 6.3V
C23	1-126-390-11	ELECT, CHIP 22uF 20% 6.3V
C24	1-126-395-11	ELECT, CHIP 22uF 20% 16V
C25	1-126-390-11	ELECT, CHIP 22uF 20% 6.3V
C26	1-126-398-11	ELECT, CHIP 4.7uF 20% 35V
C27	1-126-398-11	ELECT, CHIP 4.7uF 20% 35V
C28	1-126-398-11	ELECT, CHIP 4.7uF 20% 35V
C29	1-126-398-11	ELECT, CHIP 4.7uF 20% 35V
C30	1-126-397-11	ELECT, CHIP 33uF 20% 25V
C34	1-126-395-11	ELECT, CHIP 22uF 20% 16V
C35	1-126-401-11	ELECT, CHIP 1uF 20% 50V
C36	1-126-401-11	ELECT, CHIP 1uF 20% 50V
C39	1-126-401-11	ELECT, CHIP 1uF 20% 50V
C41	1-126-390-11	ELECT, CHIP 22uF 20% 6.3V
C43	1-126-390-11	ELECT, CHIP 22uF 20% 6.3V
C46	1-135-161-21	TANTALUM, CHIP 22uF 10% 10V
C47	1-135-161-21	TANTALUM, CHIP 22uF 10% 10V
C50	1-126-394-11	ELECT, CHIP 10uF 20% 16V
C53	1-126-394-11	ELECT, CHIP 10uF 20% 16V
C55	1-126-401-11	ELECT, CHIP 1uF 20% 50V
C62	1-126-395-11	ELECT, CHIP 22uF 20% 16V
C63	1-126-390-11	ELECT, CHIP 22uF 20% 6.3V
C67	1-126-394-11	ELECT, CHIP 10uF 20% 16V
C68	1-126-394-11	ELECT, CHIP 10uF 20% 16V
C69	1-126-394-11	ELECT, CHIP 10uF 20% 16V
C70	1-126-390-11	ELECT, CHIP 22uF 20% 6.3V
C78	1-126-397-11	ELECT, CHIP 33uF 20% 25V
CN1	1-580-834-11	CONNECTOR, FPC (ZIF) 25P
CN2	1-580-834-11	CONNECTOR, FPC (ZIF) 25P
CN3	1-506-470-11	o CONNECTOR, 5P, MALE
CV1	1-141-368-11	CAP, TRIMMER (CHIP)
D2	8-719-800-76	DIODE 1SS226
D3	8-719-400-18	DIODE MA152WK
D5	8-719-400-18	DIODE MA152WK
D9	8-719-400-18	DIODE MA152WK

Please see pages D-13 and D-14 for the part numbers of capacitors and resistors that are not listed in the parts list.

DXC-537P (EK)

(AT-59 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D10	8-719-400-18	DIODE MA152WK
D11	8-719-400-18	DIODE MA152WK
D12	8-719-400-18	DIODE MA152WK
D13	8-719-106-08	DIODE RD6.2M-B2
D14	8-719-400-18	DIODE MA152WK
D15	8-719-105-91	DIODE RD5.6M-B2
D16	8-719-400-18	DIODE MA152WK
D17	8-719-400-18	DIODE MA152WK
D21	8-719-800-76	DIODE 1SS226
IC1	8-759-300-71	IC MC14053BF
IC2	8-759-101-12	IC UPC311G2
IC3	8-759-981-65	IC LM2903M
IC4	8-759-906-54	IC TL064CNS
IC5	8-759-300-71	IC MC14053BF
IC7	8-759-906-54	IC TL064CNS
IC8	8-759-009-10	IC MC14069UBF
IC9	8-759-323-64	IC HD6305Y0E27F
IC10	8-759-977-80	IC MB88342PF
IC11	8-759-977-80	IC MB88342PF
IC12	8-759-009-05	IC MC14051BF
IC13	8-759-008-74	IC MC14001BF
IC14	8-759-906-54	IC TL064CNS
IC15	8-759-906-54	IC TL064CNS
IC16	8-759-112-72	IC UPD6142G-101
IC17	8-759-906-54	IC TL064CNS
IC18	8-759-300-71	IC MC14053BF
IC19	8-759-633-29	IC M6M80011L
IC20	8-759-009-10	IC MC14069UBF
IC21	8-759-918-65	IC TL7700CPS
L1	1-408-797-11	CHIP 470uH
L2	1-408-797-11	CHIP 470uH
L4	1-408-783-00	CHIP 33uH
L5	1-408-786-21	INDUCTOR CHIP 56uH
L6	1-408-783-00	CHIP 33uH
Q1	8-729-216-22	TRANSISTOR 2SA1162
Q2	8-729-216-22	TRANSISTOR 2SA1162
Q3	8-729-216-22	TRANSISTOR 2SA1162
Q4	8-729-100-66	TRANSISTOR 2SC1623
Q5	8-729-402-19	TRANSISTOR XN6501
Q6	8-729-402-19	TRANSISTOR XN6501
Q7	8-729-100-66	TRANSISTOR 2SC1623
Q8	8-729-402-84	TRANSISTOR XN4601
Q9	8-729-402-84	TRANSISTOR XN4601
Q10	8-729-141-53	TRANSISTOR 2SK94-X2X3X4
Q11	8-729-100-66	TRANSISTOR 2SC1623
Q12	8-729-402-19	TRANSISTOR XN6501
Q13	8-729-403-32	TRANSISTOR XN6534
Q14	8-729-402-84	TRANSISTOR XN4601
Q16	8-729-402-84	TRANSISTOR XN4601
Q17	8-729-141-53	TRANSISTOR 2SK94-X2X3X4
Q18	8-729-800-37	TRANSISTOR 2SD1048-X7
Q19	8-729-807-87	TRANSISTOR 2SB1295-UL6
Q20	8-729-402-19	TRANSISTOR XN6501
Q21	8-729-402-19	TRANSISTOR XN6501
Q22	8-729-100-66	TRANSISTOR 2SC1623
Q24	8-729-402-19	TRANSISTOR XN6501
Q25	8-729-100-66	TRANSISTOR 2SC1623
R58	1-216-697-11	METAL, CHIP 82K 0.5% 1/10W

(AT-59 BOARD)

Ref. No.
or Q'ty Part No. SP Description

R65 1-216-697-11 s METAL, CHIP 82K 0.5% 1/10W
 R111 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
 R112 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
 R114 1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W
 R115 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W

R138 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
 R139 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
 R140 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
 R141 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W
 R142 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W

R181 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
 R182 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W
 R191 1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W

RB1 1-231-387-00 s COMPOSITION CIRCUIT BLOCK

RV1 1-237-034-11 s RES, ADJ, METAL 2K
 RV2 1-237-037-11 s RES, ADJ, METAL 20K
 RV3 1-237-034-11 s RES, ADJ, METAL 2K
 RV4 1-237-518-21 s RES, ADJ, METAL 10K
 RV5 1-237-518-21 s RES, ADJ, METAL 10K

S1 1-570-854-11 s SWITCH, SLIDE
 S2 1-570-859-11 s SWITCH, SLIDE
 S3 1-554-174-00 s SWITCH, TACTILE
 S4 1-570-865-11 s SWITCH, SLIDE
 S5 1-570-836-11 s SWITCH, SLIDE

X1 1-567-192-11 s RESONATOR, CERAMIC 4.00MHz

CN-439 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 1-638-047-12 o PRINTED CIRCUIT BOARD, CN-439
 CN1 1-566-260-21 o CONNECTOR, BOARD TO BOARD 14P
 CN2 1-566-260-21 o CONNECTOR, BOARD TO BOARD 14P
 CN3 1-566-098-11 o PIN, BOARD TO BOARD 14P
 CN4 1-566-098-11 o PIN, BOARD TO BOARD 14P

EN-95 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc A-7515-287-A o MOUNTED CIRCUIT BOARD, EN-95 (P)
 1pc 2-280-622-41 o SUPPORT (M3), HEXAGON
 1pc 7-682-546-04 s SCREW +B 3X5

C1 1-126-395-11 s ELECT, CHIP 22uF 20% 16V
 C4 1-126-398-11 s ELECT, CHIP 4.7uF 20% 35V
 C5 1-135-158-21 s TANTALUM 15uF 10% 4V
 C6 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V
 C7 1-163-251-11 s CERAMIC 100PF 5% 50V

C8 1-135-181-21 s TANTAL 4.7uF 10% 6.3V
 C11 1-126-398-11 s ELECT, CHIP 4.7uF 20% 35V
 C12 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V
 C13 1-163-251-11 s CERAMIC 100PF 5% 50V
 C14 1-135-181-21 s TANTAL 4.7uF 10% 6.3V

C15 1-126-395-11 s ELECT, CHIP 22uF 20% 16V
 C16 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C21 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C22 1-126-395-11 s ELECT, CHIP 22uF 20% 16V
 C23 1-107-048-00 s MICA 6.8PF 500V

C24 1-126-393-11 s ELECT 33uF 20% 10V
 C25 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C26 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C28 1-163-086-00 s CERAMIC, CHIP 3PF 50V
 C30 1-126-396-11 s ELECT, CHIP 47uF 20% 16V
 C31 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C34 1-163-115-00 s CERAMIC, CHIP 82PF 5% 50V
 C36 1-126-393-11 s ELECT 33uF 20% 10V
 C37 1-126-393-11 s ELECT 33uF 20% 10V
 C44 1-126-176-11 s ELECT 220uF 20% 10V

C46 1-126-393-11 s ELECT 33uF 20% 10V
 C47 1-163-235-11 s CERAMIC 22PF 5% 50V
 C48 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C49 1-163-235-11 s CERAMIC 22PF 5% 50V
 C50 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

C51 1-163-235-11 s CERAMIC 22PF 5% 50V
 C52 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C53 1-163-251-11 s CERAMIC 100PF 5% 50V
 C57 1-135-162-21 s TANTAL 33uF 10% 6.3V
 C58 1-163-235-11 s CERAMIC 22PF 5% 50V

C60 1-163-227-11 s CERAMIC 10PF 5% 50V
 C61 1-126-395-11 s ELECT, CHIP 22uF 20% 16V
 C64 1-163-251-11 s CERAMIC 100PF 5% 50V
 C65 1-126-396-11 s ELECT, CHIP 47uF 20% 16V
 C66 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

C67 1-126-393-11 s ELECT 33uF 20% 10V
 C70 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C71 1-126-393-11 s ELECT 33uF 20% 10V
 C72 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C76 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V

C77 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C78 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C80 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C87 1-135-216-11 s TANTAL 10uF 20% 10V
 C90 1-135-216-11 s TANTAL 10uF 20% 10V

C91 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

D1 8-719-800-76 s DIODE 1SS226
 D3 8-719-800-76 s DIODE 1SS226

DL1 1-415-813-11 s DELAY LINE

(EN-95 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
FL1	1-235-181-00	s FILTER, BANDPASS 4.43MHz
IC1	8-759-906-59	s IC CX22017
IC2	8-759-925-74	s IC SN74HC04ANS
IC3	8-759-209-15	s IC TC4SU69F
IC4	8-759-981-65	s IC LM2903M
IC5	8-759-907-21	s IC CX-7969
IC6	8-759-911-77	s IC CX-7968A
IC8	8-759-234-20	s IC TC7S08F
IC9	8-759-710-24	s IC NJM319M
IC10	8-759-209-15	s IC TC4SU69F
L1	1-408-785-21	s CHIP 47uH
L2	1-408-795-21	s CHIP 330uH
L3	1-408-795-21	s CHIP 330uH
L4	1-408-785-21	s CHIP 47uH
L6	1-408-785-21	s CHIP 47uH
L8	1-408-785-21	s CHIP 47uH
L9	1-408-791-00	s CHIP 150uH
L10	1-408-783-00	s CHIP 33uH
L12	1-408-785-21	s CHIP 47uH
L14	1-408-783-00	s CHIP 33uH
LV1	1-408-844-00	s INDUCTOR, VAR, 22uH
Q1	8-729-402-19	s TRANSISTOR XN6501
Q2	8-729-402-19	s TRANSISTOR XN6501
Q4	8-729-402-19	s TRANSISTOR XN6501
Q5	8-729-402-19	s TRANSISTOR XN6501
Q7	8-729-402-19	s TRANSISTOR XN6501
Q8	8-729-402-19	s TRANSISTOR XN6501
Q9	8-729-402-19	s TRANSISTOR XN6501
Q10	8-729-122-63	s TRANSISTOR 2SA1226
Q11	8-729-402-19	s TRANSISTOR XN6501
Q12	8-729-402-78	s TRANSISTOR XN6401
Q13	8-729-402-84	s TRANSISTOR XN4601
Q14	8-729-216-22	s TRANSISTOR 2SA1162
Q15	8-729-100-66	s TRANSISTOR 2SC1623
Q16	8-729-403-32	s TRANSISTOR XN6534
Q17	8-729-403-32	s TRANSISTOR XN6534
Q18	8-729-216-22	s TRANSISTOR 2SA1162
Q19	8-729-402-19	s TRANSISTOR XN6501
Q20	8-729-402-78	s TRANSISTOR XN6401
Q22	8-729-403-32	s TRANSISTOR XN6534
Q24	8-729-402-19	s TRANSISTOR XN6501
Q25	8-729-402-78	s TRANSISTOR XN6401
Q27	8-729-403-29	s TRANSISTOR XN6435
Q28	8-729-402-84	s TRANSISTOR XN4601
Q29	8-729-403-29	s TRANSISTOR XN6435
Q30	8-729-402-78	s TRANSISTOR XN6401
Q31	8-729-402-78	s TRANSISTOR XN6401
Q32	8-729-402-84	s TRANSISTOR XN4601
Q33	8-729-216-22	s TRANSISTOR 2SA1162
Q34	8-729-402-19	s TRANSISTOR XN6501
Q35	8-729-402-19	s TRANSISTOR XN6501
Q36	8-729-216-22	s TRANSISTOR 2SA1162
Q37	8-729-402-78	s TRANSISTOR XN6401
Q38	8-729-402-19	s TRANSISTOR XN6501
Q39	8-729-402-19	s TRANSISTOR XN6501
Q40	8-729-216-22	s TRANSISTOR 2SA1162
Q41	8-729-402-78	s TRANSISTOR XN6401

Please see pages D-13 and D-14 for the part numbers of capacitors and resistors that are not listed in the parts list.

DXC-537P (EK)

(EN-95 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q42	8-729-402-19	s TRANSISTOR XN6501
Q43	8-729-402-19	s TRANSISTOR XN6501
Q44	8-729-216-22	s TRANSISTOR 2SA1162
Q45	8-729-402-78	s TRANSISTOR XN6401
Q46	8-729-402-19	s TRANSISTOR XN6501
Q47	8-729-402-84	s TRANSISTOR XN4601
Q48	8-729-100-66	s TRANSISTOR 2SC1623
Q50	8-729-402-84	s TRANSISTOR XN4601
R1	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R2	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R3	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R5	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R9	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R13	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R14	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R15	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R16	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R17	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R18	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R21	1-216-656-11	s METAL, CHIP 1.6K 0.5% 1/10W
R22	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R27	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R28	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R29	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R33	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R37	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R38	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R42	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R43	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R47	1-216-623-11	s METAL, CHIP 68 0.5% 1/10W
R48	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R49	1-216-660-11	s METAL, CHIP 2.4K 0.5% 1/10W
R51	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R66	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R67	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R69	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R71	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R72	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R73	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R76	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R77	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R78	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R89	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R90	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R93	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R94	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R95	1-216-693-11	s METAL, CHIP 56K 0.5% 1/10W
R96	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R97	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R104	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R107	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R108	1-216-660-11	s METAL, CHIP 2.4K 0.5% 1/10W
R109	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R110	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R112	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R115	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R118	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R119	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W

(EN-95 BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
R123	1-216-658-11 s	METAL, CHIP 2K 0.5% 1/10W	1pc	A-7515-293-A o	OUNTED CIRCUIT BOARD, IE-28 (P)
R127	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W	C1	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
R128	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W	C3	1-163-227-11 s	CERAMIC 10PF 5% 50V
R139	1-216-619-11 s	METAL, CHIP 47 0.5% 1/10W	C4	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
R144	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W	C6	1-135-160-21 s	TANTAL 15uF 10% 16V
R145	1-216-681-11 s	METAL, CHIP 18K 0.5% 1/10W	C7	1-135-160-21 s	TANTAL 15uF 10% 16V
R146	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W	C8	1-163-251-11 s	CERAMIC 100PF 5% 50V
R147	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W	C10	1-163-227-11 s	CERAMIC 10PF 5% 50V
R153	1-216-623-11 s	METAL, CHIP 68 0.5% 1/10W	C12	1-135-216-11 s	TANTAL 10uF 20% 10V
R159	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W	C16	1-126-396-11 s	ELECT, CHIP 47uF 20% 16V
R160	1-216-681-11 s	METAL, CHIP 18K 0.5% 1/10W	C17	1-135-216-11 s	TANTAL 10uF 20% 10V
R161	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W	C19	1-135-216-11 s	TANTAL 10uF 20% 10V
R162	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W	C26	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
R169	1-216-623-11 s	METAL, CHIP 68 0.5% 1/10W	C27	1-135-161-21 s	TANTALUM, CHIP 22uF 10% 10V
R173	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W	C28	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
R174	1-216-681-11 s	METAL, CHIP 18K 0.5% 1/10W	C32	1-135-161-21 s	TANTALUM, CHIP 22uF 10% 10V
R175	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W	C39	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
R176	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W	C41	1-126-396-11 s	ELECT, CHIP 47uF 20% 16V
R183	1-216-623-11 s	METAL, CHIP 68 0.5% 1/10W	C42	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
R202	1-216-681-11 s	METAL, CHIP 18K 0.5% 1/10W	C46	1-135-210-11 s	TANTALUM 4.7uF 10% 10V
R203	1-216-631-11 s	METAL, CHIP 150 0.5% 1/10W	C47	1-135-210-11 s	TANTALUM 4.7uF 10% 10V
R204	1-216-677-11 s	METAL, CHIP 12K 0.5% 1/10W	C48	1-163-251-11 s	CERAMIC 100PF 5% 50V
R231	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W	C50	1-135-177-21 s	TANTALUM CHIP 1uF 10% 25V
R233	1-216-685-11 s	METAL, CHIP 27K 0.5% 1/10W	C51	1-135-177-21 s	TANTALUM CHIP 1uF 10% 25V
RV1	1-241-263-41 s	RES, ADJ, CERMET 5K	C52	1-135-177-21 s	TANTALUM CHIP 1uF 10% 25V
RV2	1-237-032-11 s	RES, ADJ, METAL 500	C53	1-135-177-21 s	TANTALUM CHIP 1uF 10% 25V
RV3	1-237-035-11 s	RES, ADJ, METAL 5K	C56	1-135-216-11 s	TANTAL 10uF 20% 10V
RV4	1-241-263-41 s	RES, ADJ, CERMET 5K	C63	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
RV5	1-237-033-11 s	RES, ADJ, METAL 1K	C65	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
RV6	1-237-032-11 s	RES, ADJ, METAL 500	C74	1-135-145-11 s	TANTALUM, CHIP 0.47uF 10% 35V
RV7	1-241-262-41 s	RES, ADJ, CERMET 2K	C75	1-135-145-11 s	TANTALUM, CHIP 0.47uF 10% 35V
RV8	1-241-260-41 s	RES, ADJ, CERMET 500	C76	1-135-145-11 s	TANTALUM, CHIP 0.47uF 10% 35V
RV10	1-237-035-11 s	RES, ADJ, METAL 5K	C77	1-135-145-11 s	TANTALUM, CHIP 0.47uF 10% 35V
RV11	1-241-261-41 s	RES, ADJ, CERMET 1K	C78	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V
RV12	1-237-032-11 s	RES, ADJ, METAL 500	C82	1-135-216-11 s	TANTAL 10uF 20% 10V
RV13	1-237-033-11 s	RES, ADJ, METAL 1K	C83	1-135-216-11 s	TANTAL 10uF 20% 10V
RV14	1-237-033-11 s	RES, ADJ, METAL 1K	C90	1-135-216-11 s	TANTAL 10uF 20% 10V
RV15	1-237-033-11 s	RES, ADJ, METAL 1K	C91	1-135-161-21 s	TANTALUM, CHIP 22uF 10% 10V
RV16	1-241-264-41 s	RES, ADJ, CERMET 10K	C92	1-135-161-21 s	TANTALUM, CHIP 22uF 10% 10V
RV17	1-241-260-41 s	RES, ADJ, CERMET 500	C93	1-135-160-21 s	TANTAL 15uF 10% 16V
RV18	1-241-260-41 s	RES, ADJ, CERMET 500	C94	1-135-216-11 s	TANTAL 10uF 20% 10V
S2	1-570-863-11 s	SWITCH, SLIDE	C95	1-135-177-21 s	TANTALUM CHIP 1uF 10% 25V
			C97	1-135-177-21 s	TANTALUM CHIP 1uF 10% 25V
			C101	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
			C102	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
			C104	1-126-391-11 s	ELECT, CHIP 47uF 20% 6.3V
			C105	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
			C106	1-163-086-00 s	CERAMIC, CHIP 3PF 50V
			C107	1-135-161-21 s	TANTALUM, CHIP 22uF 10% 10V
			C108	1-126-395-11 s	ELECT, CHIP 22uF 20% 16V
			C109	1-126-391-11 s	ELECT, CHIP 47uF 20% 6.3V
			C111	1-135-166-21 s	TANTALUM, CHIP 47uF 10% 10V
			C112	1-135-210-11 s	TANTALUM 4.7uF 10% 10V
			C113	1-135-161-21 s	TANTALUM, CHIP 22uF 10% 10V
			C114	1-135-160-21 s	TANTAL 15uF 10% 16V
			C116	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
			C117	1-135-216-11 s	TANTAL 10uF 20% 10V
			C118	1-135-216-11 s	TANTAL 10uF 20% 10V

Please see pages D-13 and D-14 for the part numbers of capacitors and resistors that are not listed in the parts list.

(IE-28 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C119	1-163-251-11 s	CERAMIC 100PF 5% 50V
C120	1-135-216-11 s	TANTAL 10uF 20% 10V
C121	1-135-216-11 s	TANTAL 10uF 20% 10V
C122	1-163-235-11 s	CERAMIC 22PF 5% 50V
CN2	1-566-270-21 o	CONNECTOR, BOARD TO BOARD 8P
CN3	1-566-276-21 o	CONNECTOR, BOARD TO BOARD 14P
CV1	1-141-370-11 s	CAP, CHIP TRIMMER
CV2	1-141-311-11 s	CAR, TRIMMER 20PF
CV3	1-141-311-11 s	CAR, TRIMMER 20PF
D1	8-719-800-76 s	DIODE 1SS226
D2	8-719-800-76 s	DIODE 1SS226
D3	8-719-800-76 s	DIODE 1SS226
D4	8-719-101-97 s	DIODE 1SS97-1
D5	8-719-101-97 s	DIODE 1SS97-1
DL1	1-415-815-11 s	DELAY LINE
DL2	1-415-502-11 s	DELAY LINE 100nS
DL3	1-415-433-11 s	DELAY LINE 30nS
IC1	8-759-981-51 s	IC RC1496M
IC5	8-759-981-51 s	IC RC1496M
IC6	8-759-300-71 s	IC MC14053BF
IC7	8-759-242-64 s	IC TC4W53F
IC8	8-759-200-71 s	IC TC4017BF
IC9	8-759-200-84 s	IC TC4081BF
IC10	8-759-908-17 s	IC TL082CPS
IC11	8-759-300-71 s	IC MC14053BF
IC12	8-759-906-53 s	IC TL062CPS
IC13	8-759-242-64 s	IC TC4W53F
L1	1-408-777-00 s	CHIP 10uH
L2	1-408-785-21 s	CHIP 47uH
L3	1-410-717-31 s	INDUCTOR, CHIP 100uH
L4	1-408-785-21 s	CHIP 47uH
L5	1-410-703-21 s	INDUCTOR, CHIP 6.8uH
L6	1-410-703-21 s	INDUCTOR, CHIP 6.8uH
L7	1-408-785-21 s	CHIP 47uH
L8	1-410-711-31 s	INDUCTOR CHIP 33uH
L9	1-410-711-31 s	INDUCTOR CHIP 33uH
L10	1-408-797-11 s	CHIP 470uH
L11	1-408-785-21 s	CHIP 47uH
L12	1-408-785-21 s	CHIP 47uH
L13	1-408-781-00 s	CHIP 22uH
Q1	8-729-100-66 s	TRANSISTOR 2SC1623
Q2	8-729-100-66 s	TRANSISTOR 2SC1623
Q3	8-729-175-73 s	TRANSISTOR 2SC2757
Q4	8-729-216-22 s	TRANSISTOR 2SA1162
Q5	8-729-216-22 s	TRANSISTOR 2SA1162
Q6	8-729-175-73 s	TRANSISTOR 2SC2757
Q7	8-729-175-73 s	TRANSISTOR 2SC2757
Q8	8-729-122-63 s	TRANSISTOR 2SA1226
Q9	8-729-175-73 s	TRANSISTOR 2SC2757
Q10	8-729-122-63 s	TRANSISTOR 2SA1226
Q11	8-729-175-73 s	TRANSISTOR 2SC2757
Q12	8-729-175-73 s	TRANSISTOR 2SC2757
Q13	8-729-109-44 s	TRANSISTOR 2SK94
Q14	8-729-175-73 s	TRANSISTOR 2SC2757
Q15	8-729-175-73 s	TRANSISTOR 2SC2757
Q16	8-729-122-63 s	TRANSISTOR 2SA1226
Q17	8-729-122-63 s	TRANSISTOR 2SA1226

Please see pages D-13 and D-14 for the part numbers of capacitors and resistors that are not listed in the parts list.

DXC-537P (EK)

(IE-28 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q18	8-729-122-63 s	TRANSISTOR 2SA1226
Q19	8-729-175-73 s	TRANSISTOR 2SC2757
Q21	8-729-175-73 s	TRANSISTOR 2SC2757
Q22	8-729-100-66 s	TRANSISTOR 2SC1623
Q23	8-729-216-22 s	TRANSISTOR 2SA1162
Q24	8-729-100-66 s	TRANSISTOR 2SC1623
Q25	8-729-100-66 s	TRANSISTOR 2SC1623
Q26	8-729-109-44 s	TRANSISTOR 2SK94
Q27	8-729-109-44 s	TRANSISTOR 2SK94
Q28	8-729-175-73 s	TRANSISTOR 2SC2757
Q29	8-729-175-73 s	TRANSISTOR 2SC2757
Q30	8-729-122-63 s	TRANSISTOR 2SA1226
Q31	8-729-175-73 s	TRANSISTOR 2SC2757
Q32	8-729-122-63 s	TRANSISTOR 2SA1226
Q33	8-729-175-73 s	TRANSISTOR 2SC2757
Q34	8-729-175-73 s	TRANSISTOR 2SC2757
Q35	8-729-109-44 s	TRANSISTOR 2SK94
Q36	8-729-175-73 s	TRANSISTOR 2SC2757
Q37	8-729-175-73 s	TRANSISTOR 2SC2757
Q38	8-729-122-63 s	TRANSISTOR 2SA1226
Q39	8-729-122-63 s	TRANSISTOR 2SA1226
Q41	8-729-175-73 s	TRANSISTOR 2SC2757
Q42	8-729-175-73 s	TRANSISTOR 2SC2757
Q43	8-729-100-66 s	TRANSISTOR 2SC1623
Q44	8-729-109-44 s	TRANSISTOR 2SK94
Q45	8-729-109-44 s	TRANSISTOR 2SK94
Q46	8-729-109-44 s	TRANSISTOR 2SK94
Q47	8-729-100-66 s	TRANSISTOR 2SC1623
Q48	8-729-100-66 s	TRANSISTOR 2SC1623
Q49	8-729-100-66 s	TRANSISTOR 2SC1623
Q50	8-729-100-66 s	TRANSISTOR 2SC1623
Q51	8-729-100-66 s	TRANSISTOR 2SC1623
Q52	8-729-100-66 s	TRANSISTOR 2SC1623
Q53	8-729-100-66 s	TRANSISTOR 2SC1623
Q54	8-729-100-66 s	TRANSISTOR 2SC1623
Q55	8-729-100-66 s	TRANSISTOR 2SC1623
Q56	8-729-100-66 s	TRANSISTOR 2SC1623
Q57	8-729-175-73 s	TRANSISTOR 2SC2757
Q58	8-729-109-44 s	TRANSISTOR 2SK94
Q59	8-729-216-22 s	TRANSISTOR 2SA1162
Q61	8-729-216-22 s	TRANSISTOR 2SA1162
Q62	8-729-100-66 s	TRANSISTOR 2SC1623
Q63	8-729-216-22 s	TRANSISTOR 2SA1162
Q64	8-729-216-22 s	TRANSISTOR 2SA1162
Q65	8-729-122-63 s	TRANSISTOR 2SA1226
Q66	8-729-175-73 s	TRANSISTOR 2SC2757
Q67	8-729-175-73 s	TRANSISTOR 2SC2757
Q68	8-729-175-73 s	TRANSISTOR 2SC2757
Q69	8-729-175-73 s	TRANSISTOR 2SC2757
Q70	8-729-175-73 s	TRANSISTOR 2SC2757
Q71	8-729-100-66 s	TRANSISTOR 2SC1623
Q72	8-729-216-22 s	TRANSISTOR 2SA1162
Q73	8-729-175-73 s	TRANSISTOR 2SC2757
Q74	8-729-175-73 s	TRANSISTOR 2SC2757
Q75	8-729-175-73 s	TRANSISTOR 2SC2757
Q76	8-729-175-73 s	TRANSISTOR 2SC2757
Q77	8-729-175-73 s	TRANSISTOR 2SC2757
R5	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W

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(IE-28 BOARD)

Ref. No.
or Q'ty Part No. SP Description

R6	1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W
R10	1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
R13	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
R14	1-216-674-11 s METAL, CHIP 9.1K 0.5% 1/10W
R15	1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W
R17	1-216-647-11 s METAL, CHIP 680 0.5% 1/10W
R21	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
R22	1-216-641-11 s METAL, CHIP 390 0.5% 1/10W
R29	1-216-623-11 s METAL, CHIP 58 0.5% 1/10W
R30	1-216-623-11 s METAL, CHIP 68 0.5% 1/10W
R31	1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
R35	1-216-647-11 s METAL, CHIP 680 0.5% 1/10W
R44	1-216-637-11 s METAL, CHIP 270 0.5% 1/10W
R47	1-216-637-11 s METAL, CHIP 270 0.5% 1/10W
R50	1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W
R62	1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W
R63	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R76	1-216-623-11 s METAL, CHIP 68 0.5% 1/10W
R77	1-216-623-11 s METAL, CHIP 68 0.5% 1/10W
R78	1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
R83	1-216-647-11 s METAL, CHIP 680 0.5% 1/10W
R91	1-216-637-11 s METAL, CHIP 270 0.5% 1/10W
R93	1-216-637-11 s METAL, CHIP 270 0.5% 1/10W
R94	1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
R96	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R99	1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W
R101	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R102	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R112	1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W
R113	1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W
R114	1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W
R115	1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W
R125	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R126	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R130	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R158	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R159	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R168	1-216-640-11 s METAL, CHIP 360 0.5% 1/10W
R181	1-216-640-11 s METAL, CHIP 360 0.5% 1/10W
R182	1-216-640-11 s METAL, CHIP 360 0.5% 1/10W
R188	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R189	1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
RV1	1-237-038-11 s RES, ADJ, METAL 50K
RV2	1-237-038-11 s RES, ADJ, METAL 50K
RV3	1-241-262-41 s RES, ADJ, CERMET 2K
RV4	1-237-033-11 s RES, ADJ, METAL 1K
RV5	1-241-263-41 s RES, ADJ, CERMET 5K
RV6	1-237-032-11 s RES, ADJ, METAL 500
RV7	1-237-034-11 s RES, ADJ, METAL 2K
S1	1-571-259-11 s SWITCH, SLIDE

----- MB-307 BOARD -----

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-284-A o	OUNTED CIRCUIT BOARD, MB-307 (P)
C1	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C2	1-135-157-21 s	TANTAL 10uF 10% 6.3V
C3	1-135-180-21 s	TANTAL 3.3uF 20% 6.3V
C4	1-135-161-21 s	TANTALUM, CHIP 22uF 10% 10V
C5	1-135-216-11 s	TANTAL 10uF 20% 10V
C6	1-163-227-11 s	CERAMIC 10PF 5% 50V
C7	1-163-227-11 s	CERAMIC 10PF 5% 50V
C9	1-135-216-11 s	TANTAL 10uF 20% 10V
C10	1-163-251-11 s	CERAMIC 100PF 5% 50V
C12	1-135-212-21 s	TANTAL 2.2uF 10% 35V
C13	1-124-910-11 s	ELECT 47uF 20% 50V
C14	1-163-251-11 s	CERAMIC 100PF 5% 50V
C16	1-135-155-21 s	TANTAL CHIP 4.7uF 10% 16V
C17	1-124-478-11 s	ELECT 100uF 20% 25V
C18	1-163-251-11 s	CERAMIC 100PF 5% 50V
C19	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C20	1-124-584-00 s	ELECT 100uF 20% 10V
C21	1-135-155-21 s	TANTAL CHIP 4.7uF 10% 16V
C22	1-135-212-21 s	TANTAL 2.2uF 10% 35V
CN1	1-565-781-11 o	CONNECTOR, TX(S.S) (PC BOARD) 50P
CN2	1-565-781-11 o	CONNECTOR, TX(S.S) (PC BOARD) 50P
CN3	1-562-728-11 o	CONNECTOR, MULTI 50P
CN4	1-506-467-11 o	CONNECTOR, 2P, MALE
CN5	1-506-475-11 o	CONNECTOR, 10P, MALE
CN6	1-506-472-11 o	CONNECTOR, 7P, MALE
CN7	1-506-467-11 o	CONNECTOR, 2P, MALE
CN8	1-506-467-11 o	CONNECTOR, 2P, MALE
CN9	1-506-467-11 o	CONNECTOR, 2P, MALE
CN10	1-506-472-11 o	CONNECTOR, 7P, MALE
CN11	1-506-471-11 o	CONNECTOR, 6P, MALE
CN12	1-506-473-11 o	CONNECTOR, 8P, MALE
CN13	1-560-364-00 o	CONNECTOR POST HEADER, ILG (2P)
CN14	1-506-467-11 o	CONNECTOR, 2P, MALE
CN15	1-565-819-11 s	CONNECTOR, FPC (DIP TYPE) 25P
CN16	1-565-819-11 s	CONNECTOR, FPC (DIP TYPE) 25P
CN19	1-506-469-11 o	CONNECTOR, 4P, MALE
CN20	1-506-468-11 o	CONNECTOR, 3P, MALE
CN21	1-506-467-11 o	CONNECTOR, 2P, MALE
CP1	1-466-498-11 s	CONVERTER UNIT, DC-DC
D1	8-719-104-34 s	DIODE 1S2836
D2	8-719-800-76 s	DIODE 1SS226
IC1	8-759-242-64 s	IC TC4W53F
IC2	8-759-153-63 s	IC CXD8154AM
IC3	8-759-234-20 s	IC TC7S08F
IC5	8-759-906-54 s	IC TL064CNS
L1	1-408-785-21 s	CHIP 47uH
L2	1-408-769-11 s	INDUCTOR CHIP 2.2uH
L3	1-408-785-21 s	CHIP 47uH
Q1	8-729-100-66 s	TRANSISTOR 2SC1623
Q2	8-729-216-22 s	TRANSISTOR 2SA1162
Q3	8-729-100-66 s	TRANSISTOR 2SC1623
Q4	8-729-175-73 s	TRANSISTOR 2SC2757
Q5	8-729-122-63 s	TRANSISTOR 2SA1226
Q6	8-729-175-73 s	TRANSISTOR 2SC2757
Q8	8-729-104-75 s	TRANSISTOR 2SB799-ML

Please see pages D-13 and D-14 for the part numbers of capacitors and resistors that are not listed in the parts list.

(MB-307 BOARD)

Ref. No.
or Q'ty Part No. SP Description

Q9 8-729-100-66 s TRANSISTOR 2SC1623
Q10 8-729-101-07 s TRANSISTOR 2SB798
Q11 8-729-100-66 s TRANSISTOR 2SC1623
Q12 8-729-140-75 s TRANSISTOR 2SD999-CLK

R3 1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W
R4 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
R15 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W
R16 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W
R34 1-216-693-11 s METAL, CHIP 56K 0.5% 1/10W

R35 1-216-684-11 s METAL, CHIP 24K 0.5% 1/10W
R39 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R40 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
R42 1-216-676-11 s METAL, CHIP 11K 0.5% 1/10W
R43 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W

S1 1-572-658-21 s SWITCH, ROTARY
S2 1-571-259-11 s SWITCH, SLIDE

VC01 1-577-114-11 s 29.5000MHz

PR-143 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc A-7515-291-A o MOUNTED CIRCUIT BOARD, PR-143 (JEK)
1pc 7-621-775-08 s SCREW +B 2.6X3

C3 1-135-216-11 s TANTAL 10uF 20% 10V
C4 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V
C5 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C6 1-135-216-11 s TANTAL 10uF 20% 10V
C8 1-135-216-11 s TANTAL 10uF 20% 10V

C10 1-135-216-11 s TANTAL 10uF 20% 10V
C11 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C14 1-135-216-11 s TANTAL 10uF 20% 10V
C15 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V
C16 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V

C17 1-135-216-11 s TANTAL 10uF 20% 10V
C19 1-135-216-11 s TANTAL 10uF 20% 10V
C22 1-135-216-11 s TANTAL 10uF 20% 10V
C27 1-135-216-11 s TANTAL 10uF 20% 10V
C28 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V

C29 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C32 1-135-216-11 s TANTAL 10uF 20% 10V
C34 1-135-216-11 s TANTAL 10uF 20% 10V
C36 1-135-216-11 s TANTAL 10uF 20% 10V
C38 1-126-396-11 s ELECT, CHIP 47uF 20% 16V

C39 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C42 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C51 1-135-180-21 s TANTAL 3.3uF 20% 6.3V
C53 1-135-211-11 s TANTAL 6.8uF 20% 6.3VW
C54 1-135-211-11 s TANTAL 6.8uF 20% 6.3VW

C55 1-135-216-11 s TANTAL 10uF 20% 10V
C56 1-135-216-11 s TANTAL 10uF 20% 10V
C61 1-126-396-11 s ELECT, CHIP 47uF 20% 16V
C62 1-126-396-11 s ELECT, CHIP 47uF 20% 16V
C63 1-126-396-11 s ELECT, CHIP 47uF 20% 16V

C64 1-126-396-11 s ELECT, CHIP 47uF 20% 16V
C65 1-135-216-11 s TANTAL 10uF 20% 10V
C68 1-135-216-11 s TANTAL 10uF 20% 10V
C69 1-135-216-11 s TANTAL 10uF 20% 10V
C71 1-135-216-11 s TANTAL 10uF 20% 10V

C72 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V

CN1 1-565-780-11 o CONNECTOR, TX(P.L) (PC BOARD)50P
CN2 1-563-681-21 o CONNECTOR, BOARD TO BOARD 8P
CN3 1-563-687-21 o CONNECTOR, BOARD TO BOARD 14P

D1 8-719-104-34 s DIODE 1S2836
D2 8-719-104-34 s DIODE 1S2836
D3 8-719-951-13 s DIODE HZ5CLL

DL1 1-415-307-00 s 165nS
DL2 1-415-307-00 s 165nS
DL3 1-415-307-00 s 165nS

FL1 1-409-427-11 s FILTER, TRAP 14.3MHz
FL2 1-409-427-11 s FILTER, TRAP 14.3MHz
FL3 1-409-427-11 s FILTER, TRAP 14.3MHz

IC1 1-465-679-11 s HYBRID IC
IC2 1-807-837-21 s IC GAM
IC3 1-807-839-11 s IC WCL
IC4 1-465-679-11 s HYBRID IC
IC5 1-807-837-21 s IC GAM

IC6 1-807-839-11 s IC WCL

Please see pages D-13 and D-14 for the part numbers of capacitors and resistors that are not listed in the parts list.

(PR-143 BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
IC7	1-465-679-11 s	HYBRID IC	R42	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
IC8	1-807-837-21 s	IC GAM	R59	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W
IC9	1-807-839-11 s	IC WCL	R61	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
IC10	8-759-300-71 s	IC MC14053BF	R62	1-216-689-11 s	METAL, CHIP 39K 0.5% 1/10W
IC11	8-759-300-71 s	IC MC14053BF	R64	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W
IC12	8-759-031-84 s	IC TC7S04F	R67	1-216-655-11 s	METAL, CHIP 1.5K 0.5% 1/10W
IC13	8-759-234-20 s	IC TC7S08F	R70	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
IC14	8-759-234-20 s	IC TC7S08F	R71	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
IC16	8-759-630-27 s	IC M5236ML	R72	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
IC17	8-759-906-53 s	IC TL062GPs	R73	1-216-653-11 s	METAL, CHIP 1.2K 0.5% 1/10W
Q1	8-729-122-63 s	TRANSISTOR 2SA1226	R78	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
Q2	8-729-175-73 s	TRANSISTOR 2SC2757	R79	1-216-687-11 s	METAL, CHIP 33K 0.5% 1/10W
Q3	8-729-122-63 s	TRANSISTOR 2SA1226	R123	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W
Q4	8-729-175-73 s	TRANSISTOR 2SC2757	R127	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W
Q5	8-729-122-63 s	TRANSISTOR 2SA1226	R130	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W
Q6	8-729-122-63 s	TRANSISTOR 2SA1226	R138	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
Q7	8-729-175-73 s	TRANSISTOR 2SC2757	R147	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W
Q8	8-729-122-63 s	TRANSISTOR 2SA1226	R148	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W
Q9	8-729-122-63 s	TRANSISTOR 2SA1226	RV1	1-237-035-11 s	RES, ADJ, METAL 5K
Q11	8-729-175-73 s	TRANSISTOR 2SC2757	RV3	1-237-034-11 s	RES, ADJ, METAL 2K
Q12	8-729-122-63 s	TRANSISTOR 2SA1226	RV4	1-237-032-11 s	RES, ADJ, METAL 500
Q13	8-729-122-63 s	TRANSISTOR 2SA1226	RV5	1-237-035-11 s	RES, ADJ, METAL 5K
Q14	8-729-175-73 s	TRANSISTOR 2SC2757	RV6	1-237-032-11 s	RES, ADJ, METAL 500
Q15	8-729-122-63 s	TRANSISTOR 2SA1226	RV7	1-241-266-41 s	RES, ADJ, CERMET 50K
Q16	8-729-175-73 s	TRANSISTOR 2SC2757	RV8	1-237-035-11 s	RES, ADJ, METAL 5K
Q17	8-729-122-63 s	TRANSISTOR 2SA1226	RV10	1-237-034-11 s	RES, ADJ, METAL 2K
Q18	8-729-175-73 s	TRANSISTOR 2SC2757	RV13	1-237-035-11 s	RES, ADJ, METAL 5K
Q19	8-729-175-73 s	TRANSISTOR 2SC2757	RV14	1-237-032-11 s	RES, ADJ, METAL 500
Q21	8-729-100-66 s	TRANSISTOR 2SC1623	RV15	1-241-266-41 s	RES, ADJ, CERMET 50K
Q22	8-729-175-73 s	TRANSISTOR 2SC2757	RV16	1-237-035-11 s	RES, ADJ, METAL 5K
Q23	8-729-175-73 s	TRANSISTOR 2SC2757	RV18	1-237-034-11 s	RES, ADJ, METAL 2K
Q24	8-729-175-73 s	TRANSISTOR 2SC2757	RV19	1-237-032-11 s	RES, ADJ, METAL 500
Q25	8-729-175-73 s	TRANSISTOR 2SC2757	RV20	1-237-035-11 s	RES, ADJ, METAL 5K
Q26	8-729-175-73 s	TRANSISTOR 2SC2757	RV21	1-237-032-11 s	RES, ADJ, METAL 500
Q27	8-729-175-73 s	TRANSISTOR 2SC2757	RV22	1-241-266-41 s	RES, ADJ, CERMET 50K
Q28	8-729-175-73 s	TRANSISTOR 2SC2757	RV24	1-241-264-41 s	RES, ADJ, CERMET 10K
Q29	8-729-175-73 s	TRANSISTOR 2SC2757	RV25	1-241-264-41 s	RES, ADJ, CERMET 10K
Q30	8-729-175-73 s	TRANSISTOR 2SC2757	RV26	1-241-264-41 s	RES, ADJ, CERMET 10K
Q31	8-729-175-73 s	TRANSISTOR 2SC2757	RV27	1-237-035-11 s	RES, ADJ, METAL 5K
Q32	8-729-807-50 s	TRANSISTOR 2SD1623	RV28	1-237-035-11 s	RES, ADJ, METAL 5K
Q33	8-729-101-07 s	TRANSISTOR 2SB798	RV29	1-241-262-41 s	RES, ADJ, CERMET 2K
Q34	8-729-101-07 s	TRANSISTOR 2SB798	RV30	1-241-262-41 s	RES, ADJ, CERMET 2K
R1	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W	RV31	1-241-262-41 s	RES, ADJ, CERMET 2K
R4	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W	RV32	1-237-036-11 s	RES, ADJ, METAL 10K
R5	1-216-689-11 s	METAL, CHIP 39K 0.5% 1/10W	RV33	1-237-036-11 s	RES, ADJ, METAL 10K
R7	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W	RV34	1-237-036-11 s	RES, ADJ, METAL 10K
R11	1-216-655-11 s	METAL, CHIP 1.5K 0.5% 1/10W	RV35	1-237-036-11 s	RES, ADJ, METAL 10K
R13	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W	RV36	1-237-033-11 s	RES, ADJ, METAL 1K
R14	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W	S1	1-571-259-11 s	SWITCH, SLIDE
R15	1-216-653-11 s	METAL, CHIP 1.2K 0.5% 1/10W			
R16	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W			
R26	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W			
R28	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W			
R29	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W			
R31	1-216-689-11 s	METAL, CHIP 39K 0.5% 1/10W			
R38	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W			
R39	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W			
R41	1-216-653-11 s	METAL, CHIP 1.2K 0.5% 1/10W			

Please see pages D-13 and D-14 for the part numbers of capacitors and resistors that are not listed in the parts list.

SG-171 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-289-A o	MOUNTED CIRCUIT BOARD, SG-171 (P)
C3	1-135-159-21 s	TANTALUM, CHIP 10uF 10% 20V
C5	1-135-159-21 s	TANTALUM, CHIP 10uF 10% 20V
C6	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C8	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C9	1-163-251-11 s	CERAMIC 100PF 5% 50V
C11	1-135-216-11 s	TANTAL 10uF 20% 10V
C12	1-135-216-11 s	TANTAL 10uF 20% 10V
C14	1-135-073-00 s	TANTALUM, CHIP 0.33uF 10% 35V
C16	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C17	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C18	1-135-210-11 s	TANTALUM 4.7uF 10% 10V
C20	1-135-161-21 s	TANTALUM, CHIP 22uF 10% 10V
C22	1-135-210-11 s	TANTALUM 4.7uF 10% 10V
C23	1-135-166-21 s	TANTALUM, CHIP 47uF 10% 10V
C32	1-135-216-11 s	TANTAL 10uF 20% 10V
C33	1-135-216-11 s	TANTAL 10uF 20% 10V
C37	1-135-216-11 s	TANTAL 10uF 20% 10V
C38	1-135-091-00 s	TANTALUM, CHIP 1uF 10% 16V
C41	1-126-320-11 s	ELECT, NONPOLAR 10uF 20% 16V
C43	1-135-216-11 s	TANTAL 10uF 20% 10V
C46	1-135-216-11 s	TANTAL 10uF 20% 10V
C47	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C50	1-163-227-11 s	CERAMIC 10PF 5% 50V
C59	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C60	1-135-215-21 s	TANTAL 6.8uF 20% 16V
C61	1-163-235-11 s	CERAMIC 22PF 5% 50V
C64	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C65	1-135-215-21 s	TANTAL 6.8uF 20% 16V
C66	1-163-235-11 s	CERAMIC 22PF 5% 50V
C68	1-163-135-00 s	CERAMIC, CHIP 560PF 5% 50V
C70	1-135-156-21 s	TANTAL 6.8uF 10% 6.3V
C75	1-135-216-11 s	TANTAL 10uF 20% 10V
C76	1-135-159-21 s	TANTALUM, CHIP 10uF 10% 20V
C77	1-135-156-21 s	TANTAL 6.8uF 10% 6.3V
C79	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C80	1-135-215-21 s	TANTAL 6.8uF 20% 16V
C81	1-163-235-11 s	CERAMIC 22PF 5% 50V
C84	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C85	1-135-215-21 s	TANTAL 6.8uF 20% 16V
C86	1-163-235-11 s	CERAMIC 22PF 5% 50V
C87	1-135-216-11 s	TANTAL 10uF 20% 10V
C88	1-135-216-11 s	TANTAL 10uF 20% 10V
C89	1-126-396-11 s	ELECT, CHIP 47uF 20% 16V
C93	1-135-216-11 s	TANTAL 10uF 20% 10V
C95	1-135-216-11 s	TANTAL 10uF 20% 10V
CN1	1-563-687-21 o	CONNECTOR, BOARD TO BOARD 14P
CN2	1-563-687-21 o	CONNECTOR, BOARD TO BOARD 14P
D1	8-719-104-34 s	DIODE 1S2836
D2	8-719-104-34 s	DIODE 1S2836
D3	8-719-104-34 s	DIODE 1S2836
D4	8-719-815-59 s	DIODE 1S1555-S
D5	8-719-815-59 s	DIODE 1S1555-S
IC1	8-759-101-12 s	IC UPC311G2
IC2	8-752-335-47 s	IC CXD1216M
IC3	8-759-100-94 s	IC UPC358G2
IC4	8-759-973-99 s	IC CXD1361M
IC5	8-759-100-94 s	IC UPC358G2

Please see pages D-13 and D-14 for the part numbers of capacitors and resistors that are not listed in the parts list.

DXC-537P (EK)

(SG-171 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC6	8-759-902-88 s	IC SN74LS123NS
IC7	8-759-100-94 s	IC UPC358G2
IC8	8-759-902-88 s	IC SN74LS123NS
IC9	8-752-332-67 s	IC CXD1217M
IC10	8-759-239-23 s	IC SN74HC86NS
IC11	8-759-234-77 s	IC TC4S66F
IC12	8-759-239-34 s	IC TC74HC4538AF
IC13	8-759-231-32 s	IC TC7S00F
IC14	8-759-112-66 s	IC UPC812G2
IC15	8-759-242-64 s	IC TC4W53F
IC16	8-759-242-64 s	IC TC4W53F
IC18	8-759-927-46 s	IC SN74HC00ANS
IC19	8-759-234-77 s	IC TC4S66F
L1	1-408-785-21 s	CHIP 47uH
L2	1-408-785-21 s	CHIP 47uH
L3	1-408-785-21 s	CHIP 47uH
L4	1-410-711-31 s	INDUCTOR CHIP 33uH
L5	1-408-785-21 s	CHIP 47uH
L8	1-408-785-21 s	CHIP 47uH
L9	1-410-717-31 s	INDUCTOR, CHIP 100uH
L10	1-408-785-21 s	CHIP 47uH
L11	1-408-785-21 s	CHIP 47uH
Q1	8-729-402-19 s	TRANSISTOR XN6501
Q2	8-729-402-84 s	TRANSISTOR XN4601
Q3	8-729-216-22 s	TRANSISTOR 2SA1162
Q4	8-729-402-19 s	TRANSISTOR XN6501
Q5	8-729-403-29 s	TRANSISTOR XN6435
Q6	8-729-402-84 s	TRANSISTOR XN4601
Q9	8-729-402-19 s	TRANSISTOR XN6501
Q10	8-729-403-29 s	TRANSISTOR XN6435
Q12	8-729-402-84 s	TRANSISTOR XN4601
Q13	8-729-402-19 s	TRANSISTOR XN6501
Q14	8-729-403-29 s	TRANSISTOR XN6435
Q15	8-729-216-22 s	TRANSISTOR 2SA1162
Q16	8-729-141-53 s	TRANSISTOR 2SK94-X2X3X4
Q21	8-729-216-22 s	TRANSISTOR 2SA1162
R10	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R12	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R13	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R15	1-216-652-11 s	METAL, CHIP 1.1K 0.5% 1/10W
R23	1-216-670-11 s	METAL, CHIP 6.2K 0.5% 1/10W
R57	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R68	1-216-661-11 s	METAL, CHIP 2.7K 0.5% 1/10W
R69	1-216-661-11 s	METAL, CHIP 2.7K 0.5% 1/10W
R82	1-216-686-11 s	METAL, CHIP 30K 0.5% 1/10W
R83	1-216-685-11 s	METAL, CHIP 27K 0.5% 1/10W
R89	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R90	1-216-687-11 s	METAL, CHIP 33K 0.5% 1/10W
R91	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R99	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R116	1-216-686-11 s	METAL, CHIP 30K 0.5% 1/10W
R117	1-216-685-11 s	METAL, CHIP 27K 0.5% 1/10W
R123	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R124	1-216-687-11 s	METAL, CHIP 33K 0.5% 1/10W
R125	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R140	1-216-672-11 s	METAL, CHIP 7.5K 0.5% 1/10W
RV1	1-241-262-41 s	RES, ADJ, CERMET 2K
RV2	1-241-265-41 s	RES, ADJ, CERMET 20K

(SG-171 BOARD)

Ref. No.
or Q'ty Part No. SP Description

VC01 1-577-183-11 s OSCILLATOR, CRYSTAL

SW-414 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 1-562-736-11 o HOUSING, 3P
1pc 1-564-831-11 o CONTACT, FEMALE
1pc 1-569-193-11 s CONTACT
1pc 1-569-196-11 o HOUSING, 3P
1pc 1-569-198-11 o PLUG HOUSING, 5P

• 1pc 1-638-051-12 o PRINTED CIRCUIT BOARD, SW-414

CN2 1-506-482-11 o CONNECTOR, 3P, MALE

R1 1-249-409-11 s CARBON 220 5% 1/4W
R2 1-249-419-11 s CARBON 1.5K 5% 1/4W
R3 1-249-393-11 s CARBON 10 5% 1/4W
R4 1-249-437-11 s CARBON 47K 5% 1/4W
R5 1-249-433-11 s CARBON 22K 5% 1/4W

S1 1-554-174-00 s SWITCH, TACTILE
S2 1-554-174-00 s SWITCH, TACTILE
S3 1-554-174-00 s SWITCH, TACTILE

SW-415 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 1-638-052-12 o PRINTED CIRCUIT BOARD, SW-415

CN1 1-506-482-11 o CONNECTOR, 3P, MALE

R1 1-249-437-11 s CARBON 47K 5% 1/4W
R2 1-249-429-11 s CARBON 10K 5% 1/4W
R3 1-249-434-11 s CARBON 27K 5% 1/4W
R4 1-249-437-11 s CARBON 47K 5% 1/4W
R5 1-249-429-11 s CARBON 10K 5% 1/4W

R6 1-249-434-11 s CARBON 27K 5% 1/4W

S1 1-570-985-11 s SWITCH, TOGGLE
S2 1-570-984-11 s SWITCH, TOGGLE
S3 1-570-985-11 s SWITCH, TOGGLE
S4 1-572-660-11 s SWITCH, TOGGLE

FRAME

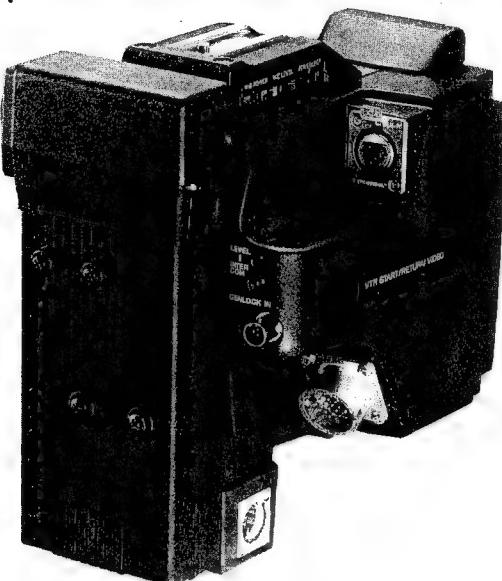
Ref. No.
or Q'ty Part No. SP Description

1pc 1-542-126-31 s MICROPHONE UNIT
1pc 1-547-474-11 o FILTER UNIT, OPTICS
1pc 1-554-486-00 s SWITCH, TOGGLE "AUTO W/B BAL"
1pc 1-561-781-21 s CONNECTOR, BNC, FEMALE
1pc 1-572-659-11 s SWITCH, TOGGLE "POWER"

2pcs 1-590-489-11 s WIRE, FLAT TYPE (25 CORE)
1pc 1-948-168-11 o HARNESS (CN)
1pc 8-759-747-09 s IC MB7116H

CN101 1-562-782-21 s RECEPTACLE, CONNECTOR 10P
"REMOTE"
CN102 1-562-221-21 s CONNECTOR, 12P, FEMALE
"LENS"
CN103 1-561-320-00 s SOCKET, DIN 8P
"VF"

CAMERA ADAPTOR



SPECIFICATIONS

Inputs/Outputs	VTR/CCU/CMA connector: Sony Z-type, 26-pin DC IN: XLR-type, 4-pin MIC IN: XLR-type, 3-pin GEN LOCK IN: BNC-type EARPHONE: mini jack INTERCOM: mini intercom jack
Power requirements	12 V DC
Power consumption	1.7 W
Operating temperature	-10°C to +45°C (14°F to 113°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Weight	1.3 kg (2 lb 14 oz)
Dimensions	118 × 205 × 187 mm (4 ³ / ₄ × 8 ¹ / ₃ × 7 ¹ / ₈ inches)
Supplied accessories	Screws for attaching the CA-537/537P M4 × 6 (2) M4 × 12 (2) Operating instructions (1)

Design and specifications are subject to change without notice.

SONY
SERVICE MANUAL

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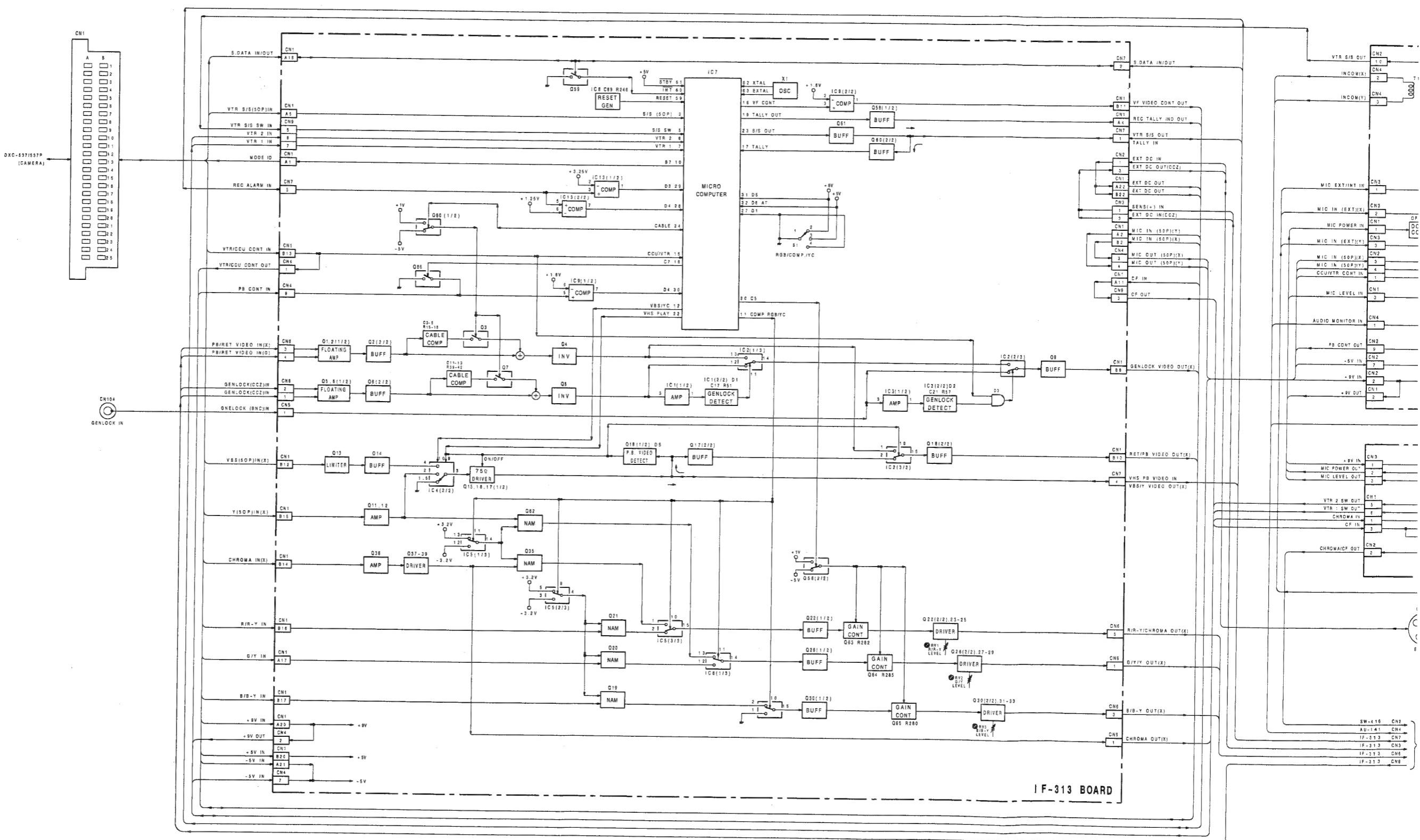
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**SECTION A
BLOCK DIAGRAM**

OVERALL BLOCK



CA-537 (J, U C)
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B

C

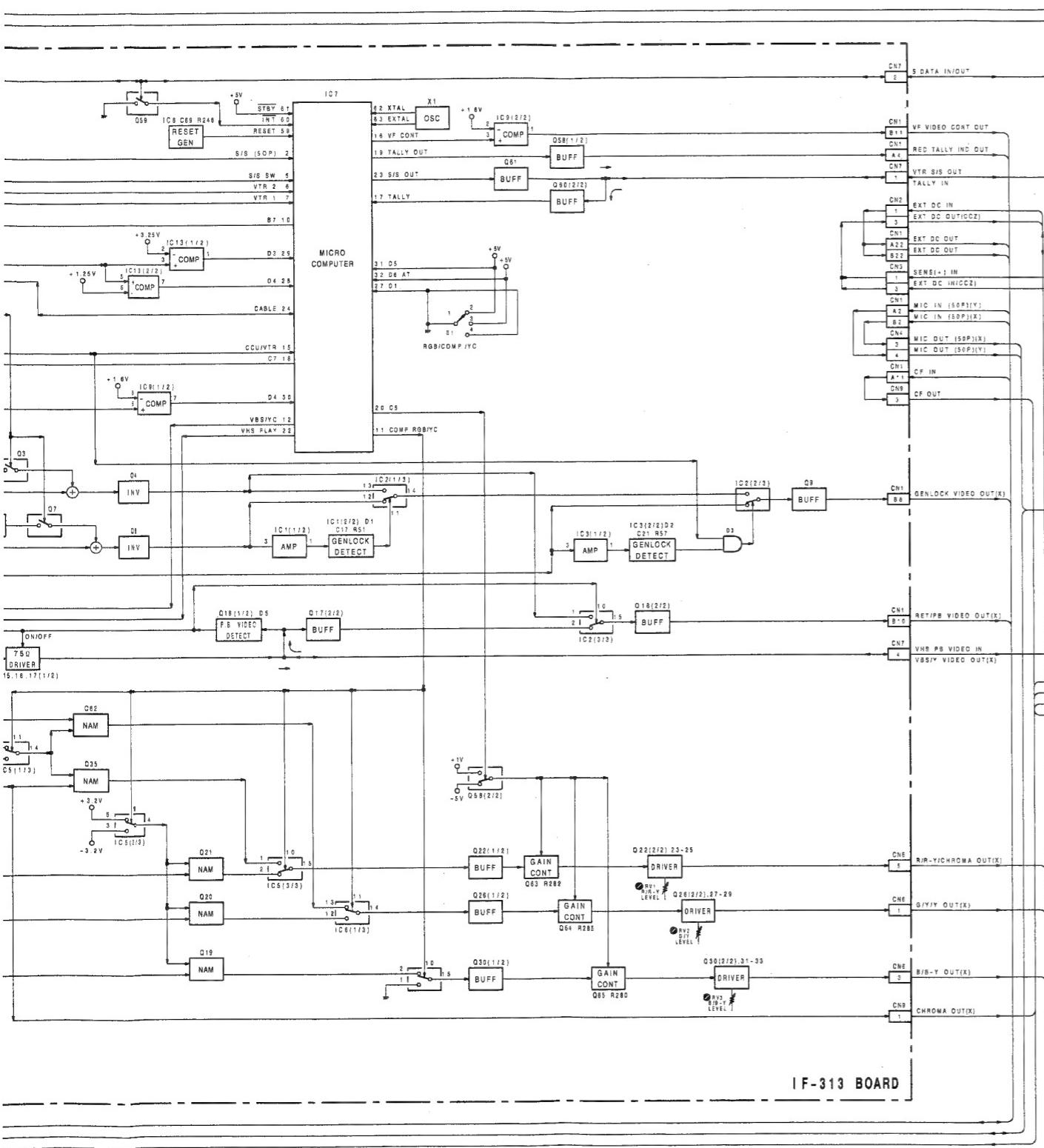
D

E

F

G

H



A-2

E

F

G

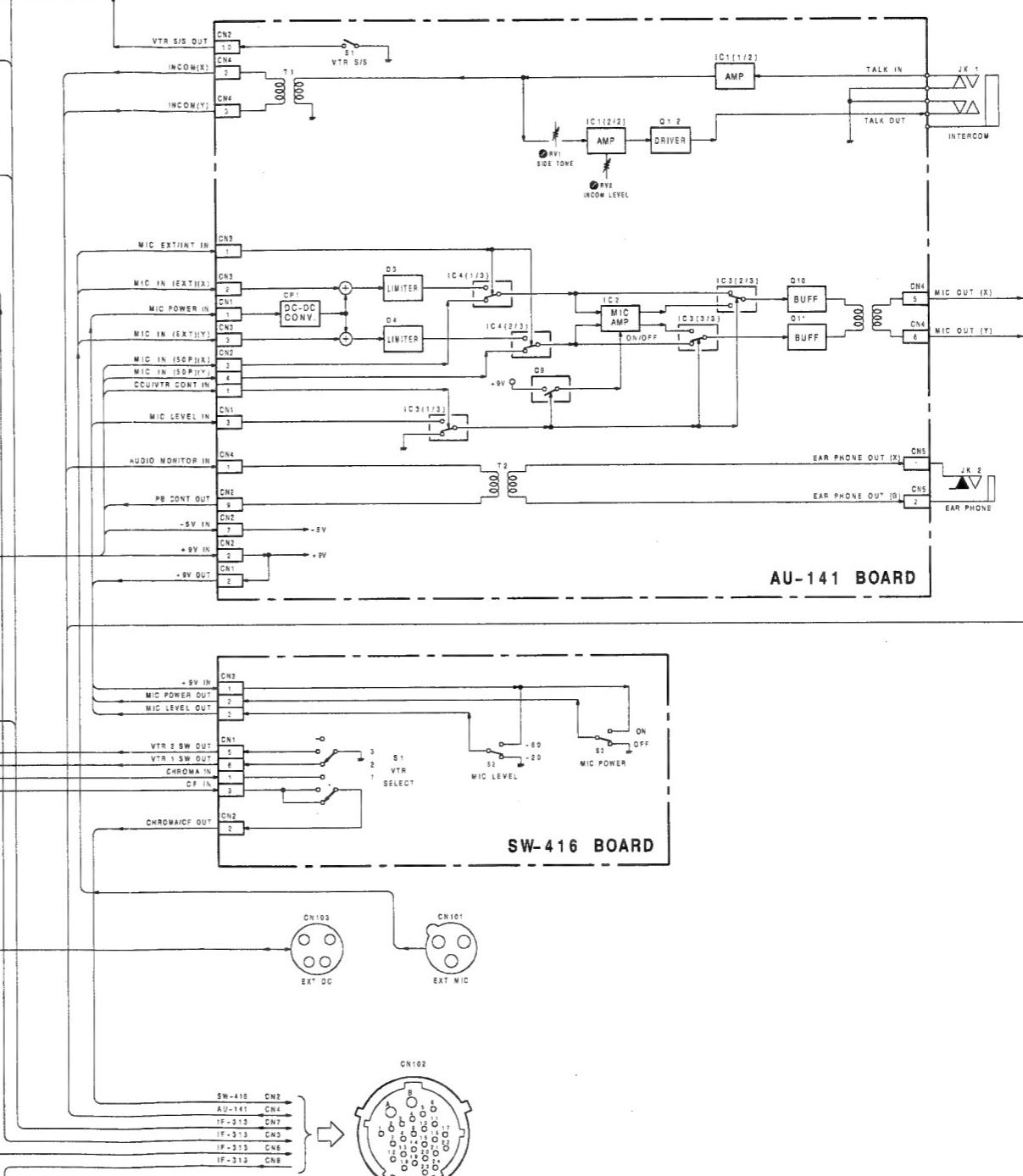
H

A-3

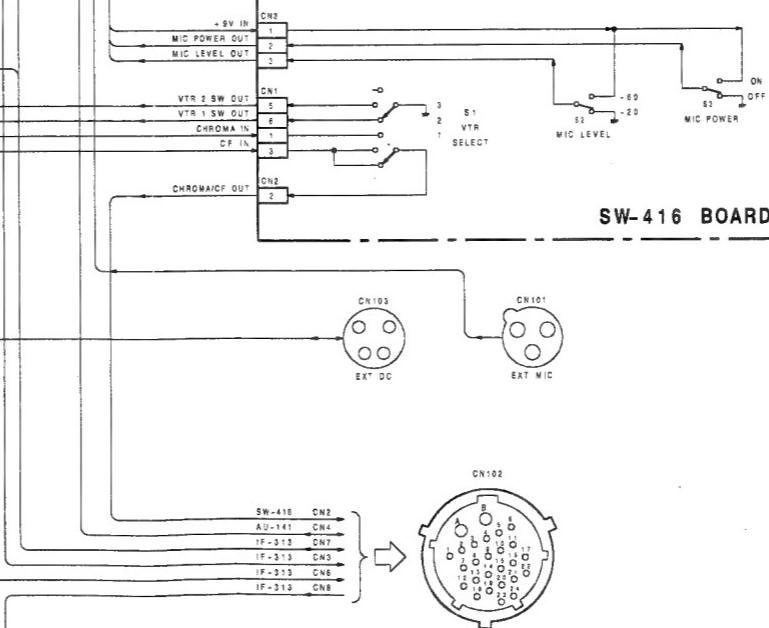
J

B-CA537-OABLOCK/M

L



AU-141 BOARD



OVERALL BLOCK
CA-537 (J, UC)
CA-537P (EK)

SECTION B SEMICONDUCTOR

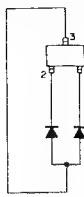
The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

TYPE	PAGE
------	------

1S2835	B-2
1S2836	B-2
1SS123	B-2
1SS226	B-2
2SA1162	B-2
2SA812	B-2
2SC1623	B-2
2SC2757	B-2
2SC2878	B-2
2SK94	B-2
HD6305Y0E26F	B-3
LM2903M	B-3
MC14052BF	B-4
MC14053BF	B-4
RC2043MD	B-4
RD ? ? M	B-2
TC4S81F	B-4
uPC358G2	B-4
uPC4558G2	B-4
XN4601	B-2
XN6401	B-2
XN6501	B-2
XN6534	B-2

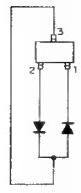
DIODE, TRANSISTOR

(SCALE 4/1)
TOP VIEW



1S2835
1S2836

(SCALE 4/1)
TOP VIEW



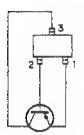
1SS123
1SS226

(SCALE 4/1)
TOP VIEW



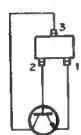
RD ? ? M

(SCALE 4/1)
TOP VIEW



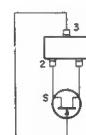
2SA1162
2SA812

(SCALE 4/1)
TOP VIEW



2SC1623
2SC2757

TOP VIEW (SCALE 4/1)



2SC2878

(SCALE 6/1)
TOP VIEW



XN4601

(SCALE 6/1)
TOP VIEW

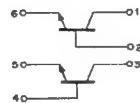


XN6401

(SCALE 6/1)
TOP VIEW



XN6501
XN6534



O1
O2
O3

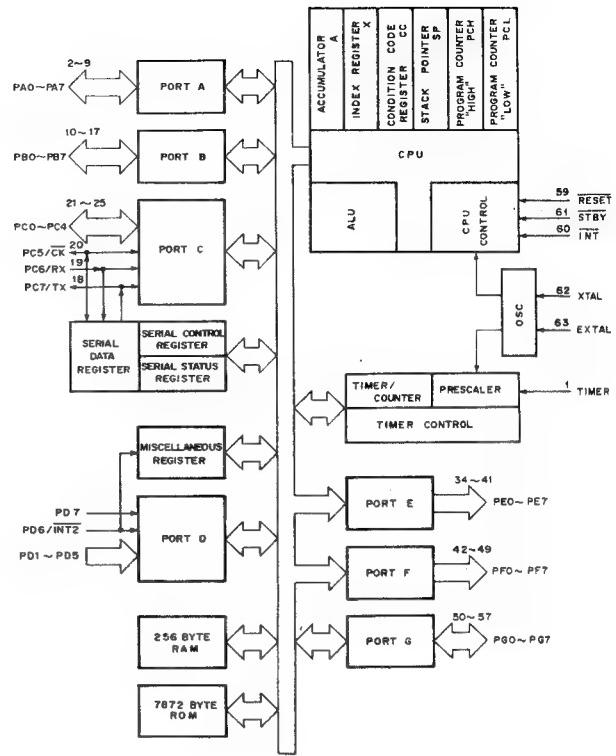
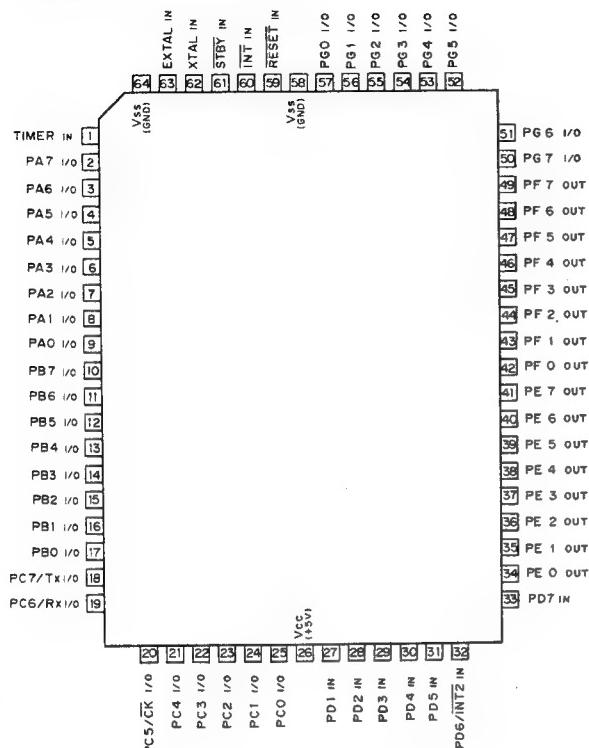
O1
O2
O3

O1
O2
O3

O1
O2
O3

HD6305Y0E26F (HITACHI)

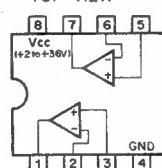
C-MOS 8-BIT MICROPROCESSOR UNIT
- TOP VIEW -



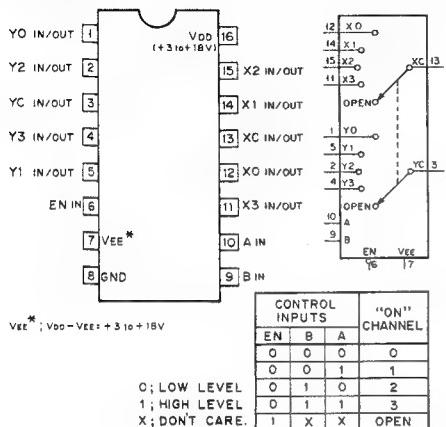
27	PD1	PE0	34	PA0~PA7	8-BIT I/O PORT A
28	PD2	PE1	35	PB0~PB7	8-BIT I/O PORT B
29	PD3	PE2	36	PC0~PC7	8-BIT I/O PORT C
30	PD4	PE3	37	PD1~PD7	7-BIT IN PORT D
31	PD5	PE4	38	PE0~PE7	8-BIT OUT PORT E
32	PD6/INT2	PE5	39	PF0~PF7	8-BIT OUT PORT F
33	PD7	PE6	40	PG0~PG7	8-BIT I/O PORT G
59	RESET	PF0	42	RESET IN	
61	STBY	PF1	43	STANDBY IN	
60	INT	PF2	44	INT	
1	TIMER	PF3	45	INT2	
52	XTAL	PF4	46	TIMER CONTROL IN	
62	EXTAL	PF5	47	XTAL	CRYSTAL
63	EXTAL	PF6	48	EXTAL	EXTERNAL CRYSTAL IN
57	EXTAL	PF7	49	CK	SERIAL INTERFACE CLOCK I/O
23	PC0	PA0	9	RX	SERIAL DATA RECEIVE
24	PC1	PA1	8	TX	SERIAL DATA TRANSMIT
25	PC2	PA2	7		
26	PC3	PA3	6		
27	PC4	PA4	5		
28	PC5/CK	PA5	4		
19	PC6/RX	PA6	3		
18	PC7/TX	PA7	2		
57	PG0	PB0	17		
56	PG1	PB1	16		
55	PG2	PB2	15		
54	PG3	PB3	14		
53	PG4	PB4	13		
52	PG5	PB5	12		
51	PG6	PB6	11		
50	PG7	PB7	10		

LM2903M (RAYTHEON) FLAT PACKAGE

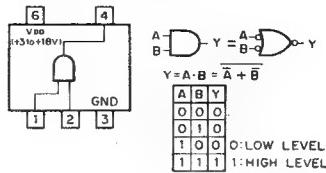
DUAL VOLTAGE COMPARATORS
- TOP VIEW -



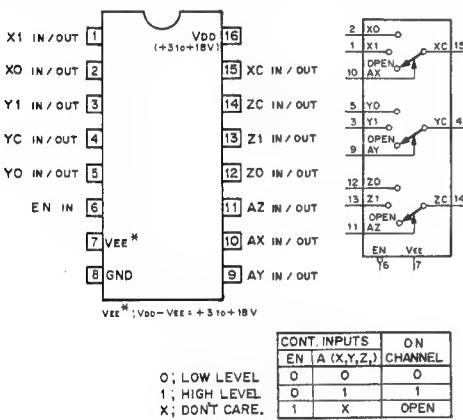
MC14052BF (MOTOROLA) FLAT PACKAGE
C-MOS DUAL 4-CHANNEL ANALOG MULTIPLEXER/DEMULITPLEXER
- TOP VIEW -



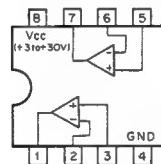
TC4S81F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT AND GATE
- TOP VIEW -



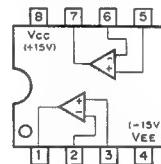
MC14053BF (MOTOROLA) FLAT PACKAGE
C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULITPLEXER
- TOP VIEW -



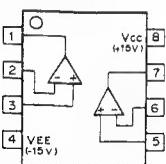
uPC358G2 (NEC) FLAT PACKAGE
DUAL OPERATIONAL AMPLIFIERS
- TOP VIEW -



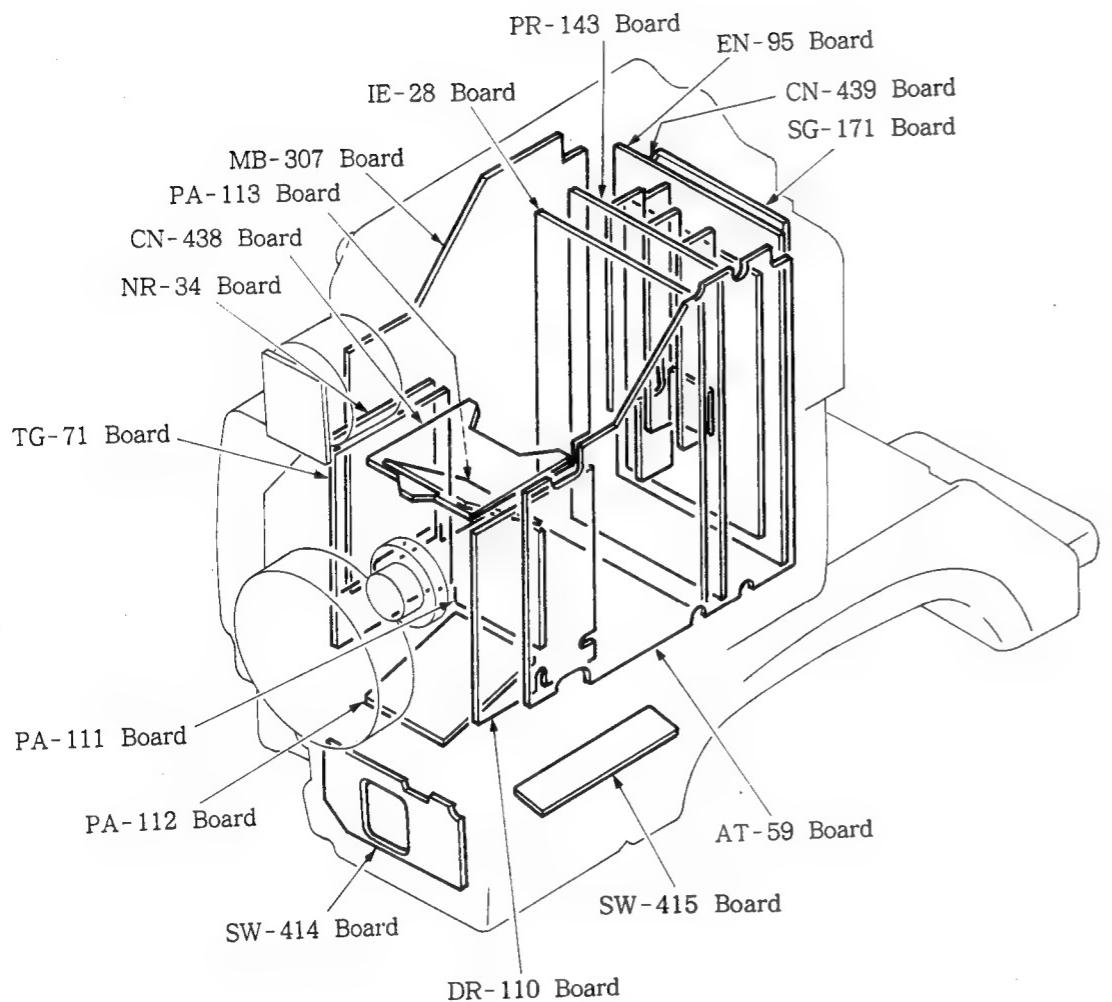
uPC4558G2 (NEC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -



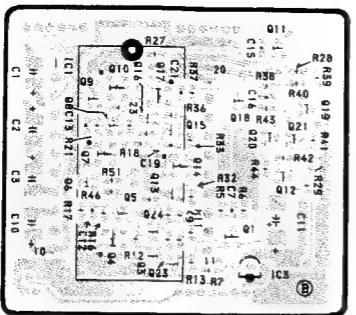
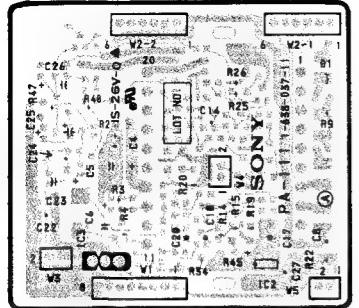
RC2043MD (RAYTHEON) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -



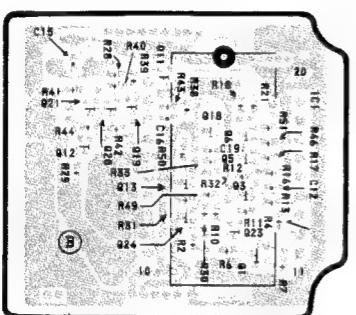
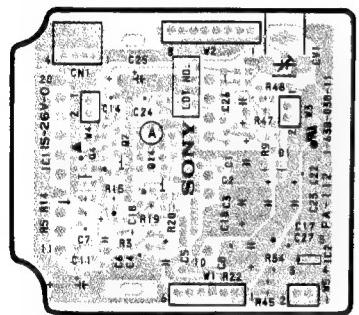
SECTION C
SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS



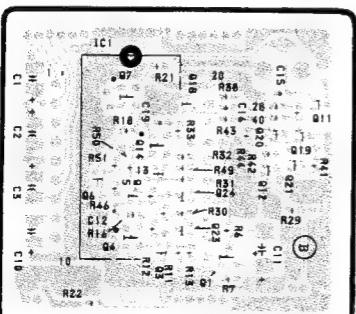
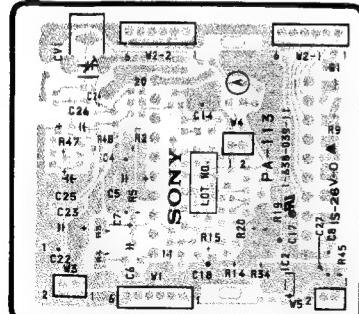
PA-111 BOARD



PA-112 BOARD



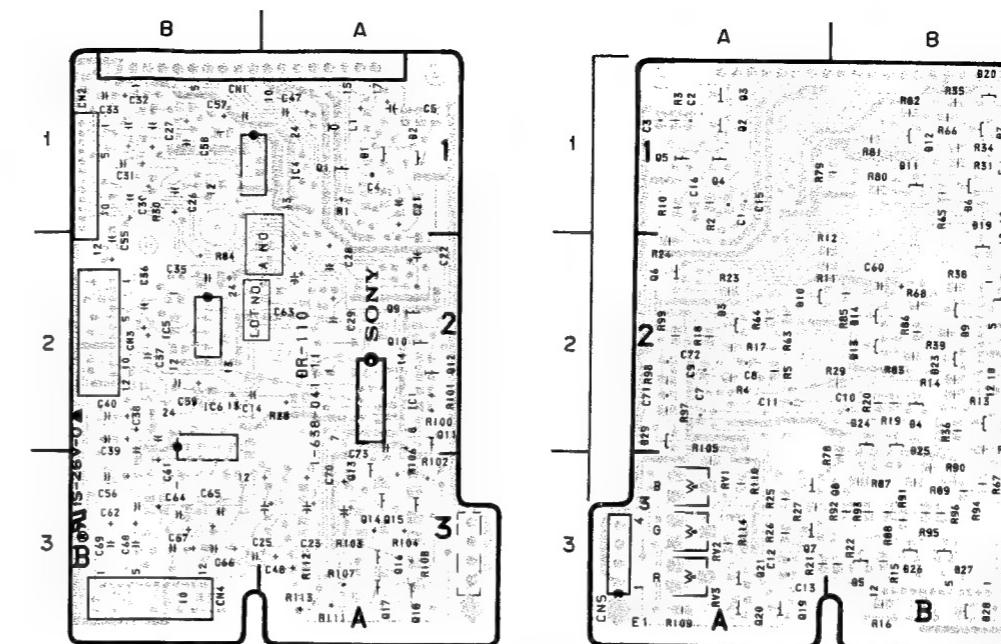
PA-113 BOARD



DR-110 BOARD

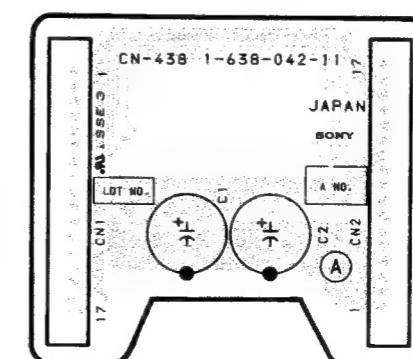
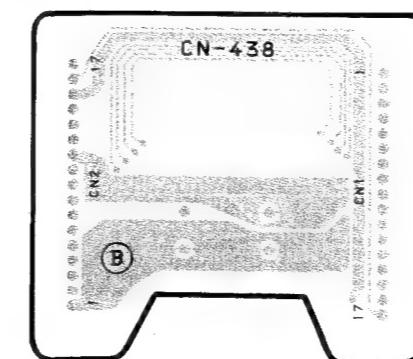
DR-110(1-638-041-11)

CN1	B - 1	L 1	A - 1
CN2	B - 1		
CN3	B - 2	Q1	A - 1
CN4	B - 3	Q2	A - 1
CN5	A - 3	Q3	A - 1
		Q4	A - 1
D1	A - 1	Q5	A - 1
D2	A - 1	Q6	A - 2
D3	A - 2	Q7	A - 3
D4	B - 2	Q8	B - 3
D5	B - 3	Q9	A - 2
D6	A - 1	Q10	A - 2
D7	B - 1		
D8	B - 2	Q11	A - 2
D9	B - 2	Q12	A - 2
D10	A - 2	Q13	A - 3
D11	A - 1	Q14	A - 3
D12	A - 1	Q15	A - 3
D13	B - 2	Q16	A - 3
D14	B - 2	Q17	A - 3
D19	A - 1	Q18	A - 3
D20	B - 1	Q19	A - 3
D21	B - 2	Q20	A - 3
D23	B - 2	Q21	A - 3
D24	B - 2		
D25	B - 2	RV1	A - 3
D26	B - 3	RV2	A - 3
D27	B - 3	RV3	A - 3
D28	B - 3		
IC 1	A - 2		
IC 4	A - 2		
IC 5	B - 2		
IC 6	B - 2		



CN1	B - 1	L 1	A - 1
CN2	B - 1		
CN3	B - 2	Q1	A - 1
CN4	B - 3	Q2	A - 1
CN5	A - 3	Q3	A - 1
		Q4	A - 1
D1	A - 1	Q5	A - 1
D2	A - 1	Q6	A - 2
D3	A - 2	Q7	A - 3
D4	B - 2	Q8	B - 3
D5	B - 3	Q9	A - 2
D6	A - 1	Q10	A - 2
D7	B - 1		
D8	B - 2	Q11	A - 2
D9	B - 2	Q12	A - 2
D10	A - 2	Q13	A - 3
D11	A - 1	Q14	A - 3
D12	A - 1	Q15	A - 3
D13	B - 2	Q16	A - 3
D14	B - 2	Q17	A - 3
D19	A - 1	Q18	A - 3
D20	B - 1	Q19	A - 3
D21	B - 2	Q20	A - 3
D23	B - 2	Q21	A - 3
D24	B - 2		
D25	B - 2	RV1	A - 3
D26	B - 3	RV2	A - 3
D27	B - 3	RV3	A - 3
D28	B - 3		
IC 1	A - 2		
IC 4	A - 2		
IC 5	B - 2		
IC 6	B - 2		

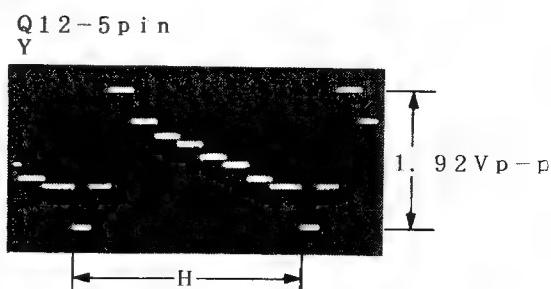
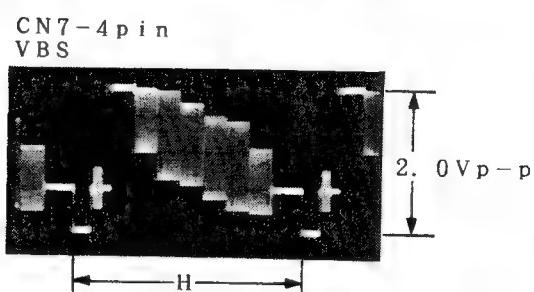
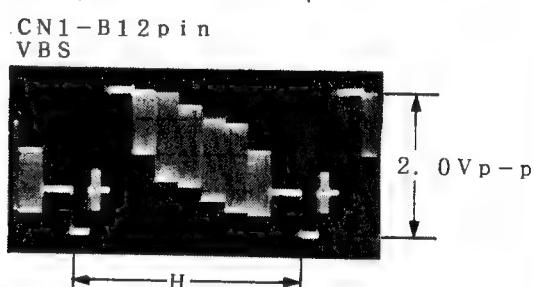
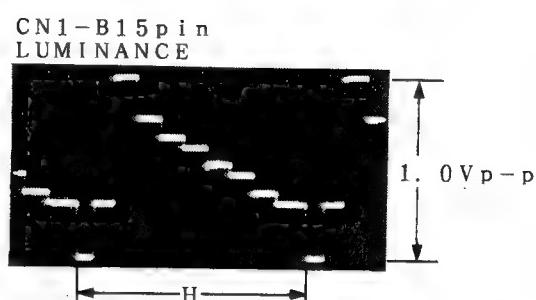
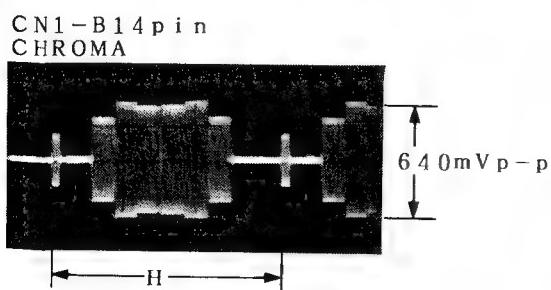
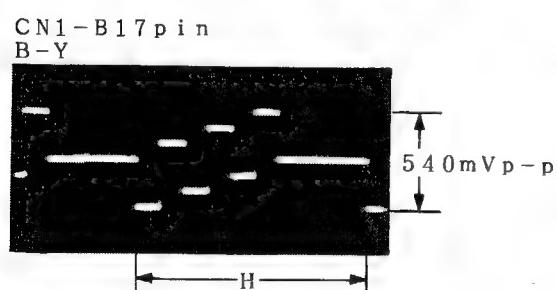
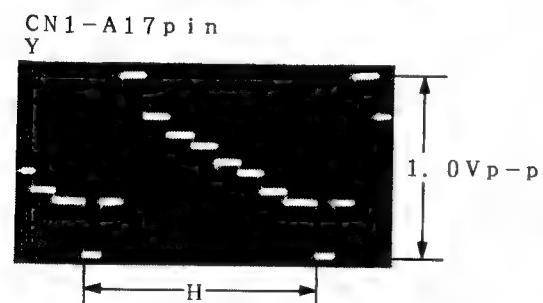
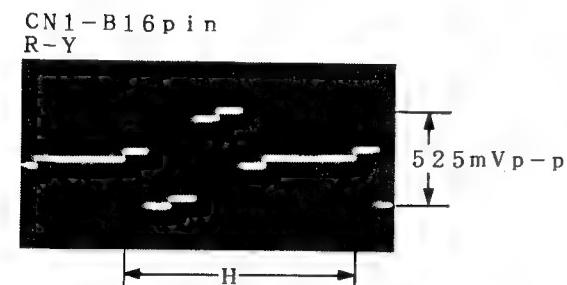
CN-438 BOARD



IF-313 BOARD

NOTE :

1. All voltage are DC, measured with a digital voltmeter.
 2. All waveforms are taken and DC voltage is measured in condition below.
- Connect the camera adapter to the camera DXC-537P.
 - OUTPUT : BARS
 - GAIN : 0 dB
 - WHITE BAL : PRE
 - SHUTTER : OFF
 - ZEBRA MARKER : OFF OFF
 - PHASE : 0°



NOTE :

1. All voltage are DC, measured with a digital voltmeter.
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 - OUTPUT : BARS
 - GAIN : 0 dB
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 - SHUTTER : OFF
 - ZEBRA MARKER : OFF OFF
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SECTION D SPARE PARTS

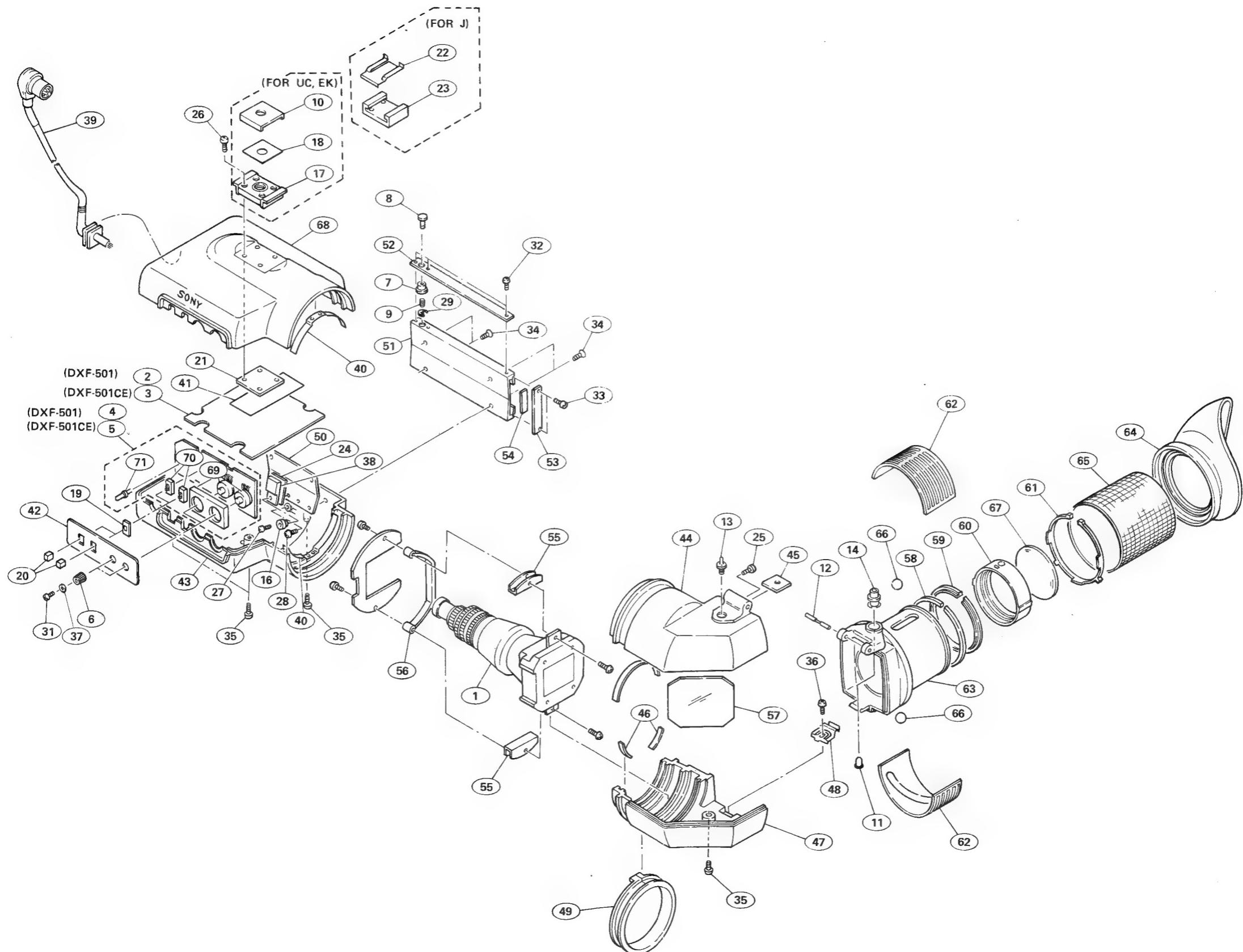
PARTS INFORMATION

1. Safety Related Component Warning

Components identified by shading marked with  on the schematic diagrams, exploded views and electrical are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown or in service manual supplements published by Sony.

2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from it actually in use. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts." This manual's exploded view and electrical spare parts lists are indicated numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our department, refer to SONY service bulletins and service manual supplements.
3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional time.
4. Items with no parts number and/or no description are not stocked because they are seldom required for routine service.
5. All capacitors are in micro farads unless otherwise specified.
All inductors are in micro henries unless otherwise specified.
All resistors are in ohms.

EXPLODED VIEW

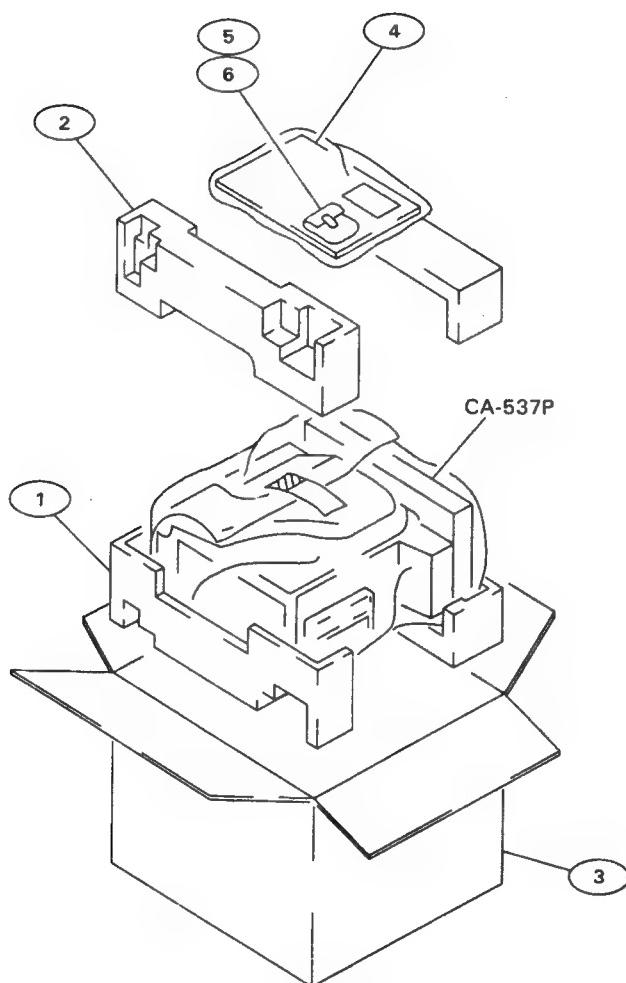


No.	Part No.	SP Description	No.	Part No.	SP Description
1	A-6703-651-C	s CASE ASSY, BATTERY	56	7-682-553-09	s SCREW +B 3X20
2	A-7515-272-A	o MOUNTED CIRCUIT BOARD, IF-313	57	7-682-559-09	s SCREW +B 4X5
3	A-7515-273-A	o MOUNTED CIRCUIT BOARD, AU-141	58	7-682-947-01	s SCREW +PSW 3X6
4	A-7520-537-A	o MOUNTED CIRCUIT BOARD, SW-416	59	7-682-948-01	s SCREW +PSW 3X8
5	X-3165-587-1	o CHASSIS ASSY, CA	60	7-685-133-19	s SCREW +P 2.6X6 TYPE2
6	X-3717-701-3	o COVER ASSY, TOP, BATTERY	61	7-685-649-79	s SCREW +BTP 3X14 TYPE2 N-S
7	1-507-756-00	s JACK "EAR"			
8	1-552-665-00	s SWITCH, MICRO			
9	1-561-781-11	s CONNECTOR, BNC "GENLOCK IN"			
10	1-562-244-00	o CONNECTOR, 26P "VTR/CCU/CMA"			
11	1-563-096-11	s CONNECTOR, 3P (WITH SW) "MIC IN"			
12	1-564-603-11	s CONNECTOR, 4P (WITH DC SW) "DC IN"			
13	1-571-259-11	s SWITCH, SLIDE "MIC LEVEL"			
14	1-571-798-11	s SWITCH, SLIDE "VTR SELECT"			
15	1-948-158-11	o HARNESS (CCZ)			
16	3-166-318-01	o BRACKET, CONNECTOR			
17	3-167-445-01	s KNOB, SWITCH			
18	3-167-450-01	o PAD, SIDE			
19	3-168-313-01	o PANEL, SWITCH			
20	3-168-317-01	o PLATE (B), BOTTOM			
21	3-168-318-01	o PANEL (2), CONNECTOR			
22	3-168-319-01	o CHASSIS, TOP			
23	3-168-320-01	o COVER (2), SIDE			
24	3-168-435-01	o PACKING, DROP PROTECTION			
25	3-664-213-00	o SCREW, STOPPER			
26	3-664-218-00	o SHUE			
27	3-664-228-00	o PLATE, SPRING			
28	3-669-596-00	s WASHER (2.3), STOPPER			
29	3-672-221-02	s PACKING, CONTROL			
30	3-703-075-00	s CAP 2, SHAFT			
31	3-717-707-02	o CUSHION (2)			
32	3-717-708-01	o RETAINER, CASE			
33	3-717-709-01	o SHAFT, LID			
34	3-718-040-01	o COVER (1), BATTERY CASE			
35	3-718-172-01	o RETAINER, HOOK			
36	3-725-907-01	s BUSHING, BLIND			
37	3-729-720-01	o CUSHION (LEFT)			
38	3-729-721-01	o CUSHION (RIGHT)			
39	3-744-355-01	o SHAFT, GUIDE			
40	7-621-770-67	s SCREW +B 2.6X6			
41	7-621-772-18	s SCREW +B 2X4			
42	7-621-772-30	s SCREW +B 2X6			
43	7-621-772-48	s SCREW +B 2X8			
44	7-621-773-86	s SCREW +B 2.6X4			
45	7-621-775-10	s SCREW +B 2.6X4			
46	7-623-508-01	s LUG, 3			
47	7-623-925-11	s WASHER 4.0, NYLONE			
48	7-624-200-01	s NUT, PUSH 1.5			
49	7-627-556-77	s SCREW, PRECISION +P2.6X6 TYPE 1			
50	7-628-254-20	s SCREW +PS 2.6X8			
51	7-682-247-04	s SCREW +K 3X6			
52	7-682-546-09	s SCREW +B 3X5			
53	7-682-547-09	s SCREW +B 3X6			
54	7-682-548-04	s SCREW +B 3X8			
55	7-682-548-09	s SCREW +B 3X8			

PACKING MATERIAL AND ACCESSORIES

No. Part No. SP Description

- | | | |
|---|--------------|-----------------------|
| 1 | 3-167-622-01 | □ CUSHION (LOWER) |
| 2 | 3-167-623-01 | ○ CUSHION (UPPER) |
| 3 | 3-168-982-01 | □ INDIVIDUAL CARTON |
| 4 | 3-752-842-11 | s MANUAL, INSTRUCTION |
| 5 | 7-682-560-09 | s SCREW +B 4X6 |
| 6 | 7-682-563-09 | s SCREW +B 4X12 |



ELECTRICAL PARTS

RESISTOR, CHIP

Part No. SP Description

1-216-295-00 s RES, CHIP 0 5% 1/10W
 1-216-298-00 s RES, CHIP 2.2 5% 1/10W
 1-216-302-00 s RES, CHIP 2.7 5% 1/10W
 1-216-304-11 s RES, CHIP 3.3 5% 1/10W
 1-216-306-11 s RES, CHIP 3.9 5% 1/10W

1-216-308-00 s RES, CHIP 4.7 5% 1/10W
 1-216-309-00 s RES, CHIP 5.6 5% 1/10W
 1-216-311-00 s RES, CHIP 6.8 5% 1/10W
 1-216-313-00 s RES, CHIP 8.2 5% 1/10W
 1-216-001-00 s RES, CHIP 10 5% 1/10W

1-216-003-11 s RES, CHIP 12 5% 1/10W
 1-216-005-00 s RES, CHIP 15 5% 1/10W
 1-216-007-00 s RES, CHIP 18 5% 1/10W
 1-216-009-00 s RES, CHIP 22 5% 1/10W
 1-216-011-00 s RES, CHIP 27 5% 1/10W

1-216-013-00 s RES, CHIP 33 5% 1/10W
 1-216-015-00 s RES, CHIP 39 5% 1/10W
 1-216-017-00 s RES, CHIP 47 5% 1/10W
 1-216-019-00 s RES, CHIP 56 5% 1/10W
 1-216-021-00 s RES, CHIP 68 5% 1/10W

1-216-023-00 s RES, CHIP 82 5% 1/10W
 1-216-025-00 s RES, CHIP 100 5% 1/10W
 1-216-027-00 s RES, CHIP 120 5% 1/10W
 1-216-029-00 s RES, CHIP 150 5% 1/10W
 1-216-031-00 s RES, CHIP 180 5% 1/10W

1-216-033-00 s RES, CHIP 220 5% 1/10W
 1-216-035-00 s RES, CHIP 270 5% 1/10W
 1-216-037-00 s RES, CHIP 330 5% 1/10W
 1-216-039-00 s RES, CHIP 390 5% 1/10W
 1-216-041-00 s RES, CHIP 470 5% 1/10W

1-216-043-00 s RES, CHIP 560 5% 1/10W
 1-216-045-00 s RES, CHIP 680 5% 1/10W
 1-216-047-00 s RES, CHIP 820 5% 1/10W
 1-216-049-00 s RES, CHIP 1k 5% 1/10W
 1-216-051-00 s RES, CHIP 1.2k 5% 1/10W

1-216-053-00 s RES, CHIP 1.5k 5% 1/10W
 1-216-055-00 s RES, CHIP 1.8k 5% 1/10W
 1-216-057-00 s RES, CHIP 2.2k 5% 1/10W
 1-216-059-00 s RES, CHIP 2.7k 5% 1/10W
 1-216-061-00 s RES, CHIP 3.3k 5% 1/10W

1-216-063-00 s RES, CHIP 3.9k 5% 1/10W
 1-216-065-00 s RES, CHIP 4.7k 5% 1/10W
 1-216-067-00 s RES, CHIP 5.6k 5% 1/10W
 1-216-069-00 s RES, CHIP 6.8k 5% 1/10W
 1-216-071-00 s RES, CHIP 8.2k 5% 1/10W

1-216-073-00 s RES, CHIP 10k 5% 1/10W
 1-216-075-00 s RES, CHIP 12k 5% 1/10W
 1-216-077-00 s RES, CHIP 15k 5% 1/10W
 1-216-079-00 s RES, CHIP 18k 5% 1/10W
 1-216-081-00 s RES, CHIP 22k 5% 1/10W

1-216-083-00 s RES, CHIP 27k 5% 1/10W
 1-216-085-00 s RES, CHIP 33k 5% 1/10W
 1-216-748-11 s RES, CHIP 39k 5% 1/10W
 1-216-089-00 s RES, CHIP 47k 5% 1/10W
 1-216-091-00 s RES, CHIP 56k 5% 1/10W

RESISTOR, CHIP

Part No. SP Description

1-216-093-00 s RES, CHIP 68k 5% 1/10W
 1-216-095-00 s RES, CHIP 82k 5% 1/10W
 1-216-097-00 s RES, CHIP 100k 5% 1/10W
 1-216-099-00 s RES, CHIP 120k 5% 1/10W
 1-216-101-00 s RES, CHIP 150k 5% 1/10W

1-216-103-00 s RES, CHIP 180k 5% 1/10W
 1-216-105-00 s RES, CHIP 220k 5% 1/10W
 1-216-107-00 s RES, CHIP 270k 5% 1/10W
 1-216-109-00 s RES, CHIP 330k 5% 1/10W
 1-216-111-00 s RES, CHIP 390k 5% 1/10W

1-216-113-00 s RES, CHIP 470k 5% 1/10W
 1-216-115-00 s RES, CHIP 560k 5% 1/10W
 1-216-117-00 s RES, CHIP 680k 5% 1/10W
 1-216-119-00 s RES, CHIP 820k 5% 1/10W
 1-216-121-00 s RES, CHIP 1.0M 5% 1/10W

1-216-123-11 s RES, CHIP 1.2M 5% 1/10W
 1-216-125-00 s RES, CHIP 1.5M 5% 1/10W
 1-216-127-11 s RES, CHIP 1.8M 5% 1/10W
 1-216-129-00 s RES, CHIP 2.2M 5% 1/10W
 1-216-131-11 s RES, CHIP 2.7M 5% 1/10W

1-216-133-00 s RES, CHIP 3.3M 5% 1/10W

AU-141 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-273-A	o MOUNTED CIRCUIT BOARD, AU-141
C1	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C2	1-124-119-00	s ELECT 330uF 20% 16V
C3	1-124-472-11	s ELECT 470uF 20% 10V
C4	1-126-160-11	s ELECT 1uF 20% 50V
C5	1-126-154-11	s ELECT 47uF 20% 6.3V
C6	1-163-109-00	s CERAMIC, CHIP 47PF 5% 50V
C7	1-126-320-11	s ELECT, NONPOLAR 10uF 20% 16V
C8	1-163-251-11	s CERAMIC 100PF 5% 50V
C9	1-124-584-00	s ELECT 100uF 20% 10V
C10	1-124-584-00	s ELECT 100uF 20% 10V
C11	1-124-584-00	s ELECT 100uF 20% 10V
C12	1-126-157-11	s ELECT 1uF 20% 16V
C13	1-124-930-11	s ELECT 33uF 20% 100V
C14	1-124-257-00	s ELECT 2.2uF 20% 50V
*C16	1-130-499-00	s MYLAR 0.22uF 5% 50V
C17	1-130-499-00	s MYLAR 0.22uF 5% 50V
C18	1-163-109-00	s CERAMIC, CHIP 47PF 5% 50V
C19	1-163-109-00	s CERAMIC, CHIP 47PF 5% 50V
C20	1-124-120-11	s ELECT 220uF 20% 25V
C21	1-126-101-11	s ELECT 100uF 20% 16V
C22	1-124-584-00	s ELECT 100uF 20% 10V
C23	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C24	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C25	1-124-257-00	s ELECT 2.2uF 20% 50V
CN1	1-506-468-11	o CONNECTOR, 3P, MALE
CN2	1-506-475-11	o CONNECTOR, 10P, MALE
CN3	1-506-469-11	o CONNECTOR, 4P, MALE
CN4	1-506-472-11	CONNECTOR, 7P, MALE
CN5	1-506-467-11	o CONNECTOR, 2P, MALE
CP1	1-464-758-11	s CONVERTER, DC-DC (CD-54)
D1	8-719-105-64	s DIODE RD4.3M-B2
D2	8-719-800-76	s DIODE 1SS226
D3	8-719-800-76	s DIODE 1SS226
D4	8-719-800-76	s DIODE 1SS226
IC1	8-759-981-58	s IC RC2043MD
IC2	8-759-981-58	s IC RC2043MD
IC3	8-759-300-71	s IC MC14053BF
IC4	8-759-300-71	s IC MC14053BF
JK1	1-507-883-00	s JACK, SMALL TYPE 4P
L1	1-408-425-00	s INDUCTOR 220uH
Q1	8-729-100-66	s TRANSISTOR 2SC1623
Q2	8-729-216-22	s TRANSISTOR 2SA1162
Q9	8-729-216-22	s TRANSISTOR 2SA1162
Q10	8-729-100-66	s TRANSISTOR 2SC1623
Q11	8-729-100-66	s TRANSISTOR 2SC1623
R24	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R25	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
RV1	1-230-523-11	s RES, ADJ, METAL 10K
RV2	1-237-506-21	s RES, ADJ, METAL 100K
S1	1-553-739-21	s SWITCH, TACTILE
T1	1-427-487-00	s TRANSFORMER, OUTPUT
T2	1-427-270-XX	s TRANSFORMER, OUTPUT
T3	1-427-487-00	s TRANSFORMER, OUTPUT

IF-313 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-272-A	o MOUNTED CIRCUIT BOARD, IF-313
C1	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C2	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C3	1-163-109-00	s CERAMIC, CHIP 47PF 5% 50V
C4	1-163-105-00	s CERAMIC, CHIP 33PF 5% 50V
C5	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C6	1-163-083-00	s CERAMIC, CHIP 1PF 50V
C7	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C8	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C9	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C10	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C11	1-163-109-00	s CERAMIC, CHIP 47PF 5% 50V
C12	1-163-105-00	s CERAMIC, CHIP 33PF 5% 50V
C13	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C14	1-163-083-00	s CERAMIC, CHIP 1PF 50V
C15	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C16	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C17	1-126-401-11	s ELECT, CHIP 1uF 20% 50V
C18	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C19	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C20	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C21	1-126-401-11	s ELECT, CHIP 1uF 20% 50V
C22	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C23	1-126-176-11	s ELECT 220uF 20% 10V
C25	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C26	1-163-227-11	s CERAMIC 10PF 5% 50V
C27	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C28	1-126-393-11	s ELECT 33uF 20% 10V
C29	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C30	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C31	1-163-227-11	s CERAMIC 10PF 5% 50V
C32	1-163-085-00	s CERAMIC, CHIP 2PF 50V
C33	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C34	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C35	1-163-227-11	s CERAMIC 10PF 5% 50V
C36	1-163-085-00	s CERAMIC, CHIP 2PF 50V
C37	1-126-395-11	s ELECT, CHIP 22uF 20% 16V
C38	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C47	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C48	1-163-091-00	s CERAMIC, CHIP 8PF 50V
C49	1-163-227-11	s CERAMIC 10PF 5% 50V
C50	1-163-109-00	s CERAMIC, CHIP 47PF 5% 50V
C51	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C52	1-126-395-11	s ELECT, CHIP 22uF 20% 16V
C53	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C54	1-163-109-00	s CERAMIC, CHIP 47PF 5% 50V
C55	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C56	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C57	1-163-109-00	s CERAMIC, CHIP 47PF 5% 50V
C58	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C59	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C60	1-163-227-11	s CERAMIC 10PF 5% 50V
C61	1-163-085-00	s CERAMIC, CHIP 2PF 50V
C62	1-126-395-11	s ELECT, CHIP 22uF 20% 16V
C63	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C67	1-163-105-00	s CERAMIC, CHIP 33PF 5% 50V
C68	1-163-105-00	s CERAMIC, CHIP 33PF 5% 50V
C69	1-126-402-11	s ELECT, CHIP 2.2uF 20% 50V

Please see pages D-7 for the part numbers of capacitors and resistors that are not listed in the parts list.

(IF-313 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C70	1-163-141-00	s CERAMIC, CHIP 0.001uF 5% 50V
C71	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C72	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C73	1-126-401-11	s ELECT, CHIP 1uF 20% 50V
C75	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
CN1	1-566-581-11	o CONNECTOR, MULTI 50P
CN2	1-506-702-11	o CONNECTOR, ILG 3P,
CN3	1-506-702-11	o CONNECTOR, ILG 3P,
CN4	1-506-474-11	o CONNECTOR, 9P, MALE
CN5	1-506-467-11	o CONNECTOR, 2P, MALE
CN6	1-506-471-11	o CONNECTOR, 6P, MALE
CN7	1-506-470-11	o CONNECTOR, 5P, MALE
CN8	1-506-469-11	o CONNECTOR, 4P, MALE
CN9	1-506-472-11	o CONNECTOR, 7P, MALE
D1	8-719-800-76	s DIODE 1SS226
D2	8-719-800-76	s DIODE 1SS226
D3	8-719-104-34	s DIODE 1S2836
D4	8-719-104-34	s DIODE 1S2836
D5	8-719-106-08	s DIODE RD6.2M-B2
D6	8-719-104-34	s DIODE 1S2836
D7	8-719-105-91	s DIODE RD5.6M-B2
D8	8-719-106-44	s DIODE RD9.1M-B2
IC1	8-759-100-96	s IC UPC4558G2
IC2	8-759-300-71	s IC MC14053BF
IC3	8-759-100-96	s IC UPC4558G2
IC4	8-759-009-06	s IC MC14052BF
IC5	8-759-300-71	s IC MC14053BF
IC6	8-759-300-71	s IC MC14053BF
IC7	8-759-323-63	s IC HD6305YOE26F
IC8	8-759-209-97	s IC TC481F
IC9	8-759-981-65	s IC LM2903M
IC13	8-759-981-65	s IC LM2903M
L2	1-408-783-00	s CHIP 33uH
Q1	8-729-403-32	s TRANSISTOR XN6534
Q2	8-729-403-32	s TRANSISTOR XN6534
Q3	8-729-109-44	s TRANSISTOR 2SK94
Q4	8-729-402-19	s TRANSISTOR XN6501
Q5	8-729-403-32	s TRANSISTOR XN6534
Q6	8-729-403-32	s TRANSISTOR XN6534
Q7	8-729-109-44	s TRANSISTOR 2SK94
Q8	8-729-402-19	s TRANSISTOR XN6501
Q9	8-729-402-84	s TRANSISTOR XN4601
Q11	8-729-403-32	s TRANSISTOR XN6534
Q12	8-729-403-32	s TRANSISTOR XN6534
Q13	8-729-402-78	s TRANSISTOR XN6401
Q14	8-729-100-66	s TRANSISTOR 2SC1623
Q15	8-729-402-78	s TRANSISTOR XN6401
Q16	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q17	8-729-402-19	s TRANSISTOR XN6501
Q18	8-729-402-84	s TRANSISTOR XN4601
Q19	8-729-402-78	s TRANSISTOR XN6401
Q20	8-729-402-78	s TRANSISTOR XN6401
Q21	8-729-402-78	s TRANSISTOR XN6401
Q22	8-729-402-84	s TRANSISTOR XN4601
Q23	8-729-403-32	s TRANSISTOR XN6534
Q24	8-729-402-19	s TRANSISTOR XN6501
Q25	8-729-402-78	s TRANSISTOR XN6401
Q26	8-729-402-84	s TRANSISTOR XN4601

Please see pages D-7 for the part numbers of capacitors and resistors that are not listed in the parts list.

(IF-313 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q27	8-729-403-32	s TRANSISTOR XN6534
Q28	8-729-402-19	s TRANSISTOR XN6501
Q29	8-729-402-78	s TRANSISTOR XN6401
Q30	8-729-402-84	s TRANSISTOR XN4601
Q31	8-729-403-32	s TRANSISTOR XN6534
Q32	8-729-402-19	s TRANSISTOR XN6501
Q33	8-729-402-78	s TRANSISTOR XN6401
Q35	8-729-402-78	s TRANSISTOR XN6401
Q36	8-729-402-19	s TRANSISTOR XN6501
Q37	8-729-122-63	s TRANSISTOR 2SA1226
Q38	8-729-402-19	s TRANSISTOR XN6501
Q39	8-729-402-78	s TRANSISTOR XN6401
Q58	8-729-402-84	s TRANSISTOR XN4601
Q59	8-729-100-66	s TRANSISTOR 2SC1623
Q60	8-729-402-84	s TRANSISTOR XN4601
Q61	8-729-201-05	s TRANSISTOR 2SC2878-B
Q62	8-729-402-78	s TRANSISTOR XN6401
Q63	8-729-109-44	s TRANSISTOR 2SK94
Q64	8-729-109-44	s TRANSISTOR 2SK94
Q65	8-729-109-44	s TRANSISTOR 2SK94
Q66	8-729-100-66	s TRANSISTOR 2SC1623
R1	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R25	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R54	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R61	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R68	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R69	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R81	1-216-623-11	s METAL, CHIP 68 0.5% 1/10W
R92	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R93	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R97	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R98	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R105	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R107	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R108	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R112	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R113	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R120	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R122	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R123	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R152	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R160	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R161	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R168	1-216-623-11	s METAL, CHIP 68 0.5% 1/10W
R174	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R199	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R203	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R211	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R213	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R216	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R217	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R224	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R277	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R282	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R285	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R288	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
RV1	1-230-520-11	s RES, ADJ, METAL 1K
RV2	1-230-520-11	s RES, ADJ, METAL 1K

(IF-313 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV3	1-230-520-11	s RES, ADJ, METAL 1K
S1	1-570-854-11	s SWITCH, SLIDE
X1	1-567-192-11	s RESONATOR, CERAMIC 4.00MHz

SW-416 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-562-739-11	o HOUSING, CONNECTOR 6P
1pc	A-7520-537-A	o MOUNTED CIRCUIT BOARD, SW-416
1pc	1-562-736-11	o HOUSING, 3P
1pc	1-564-831-11	o CONTACT, FEMALE
1pc	1-569-193-11	s CONTACT
1pc	1-569-196-11	o HOUSING, 3P
1pc	1-569-200-11	o HOUSING, CONNECTOR 7P
1pc	1-569-202-11	o HOUSING, CONNECTOR 9P
1pc	1-569-203-31	o HOUSING, CONNECTOR 10P
3pcs	3-167-445-02	s KNOB, SWITCH
CN2	1-506-467-11	o CONNECTOR, 2P, MALE
S1	1-571-259-11	s SWITCH, SLIDE
S2	1-571-259-11	s SWITCH, SLIDE
S3	1-571-798-11	s SWITCH, SLIDE

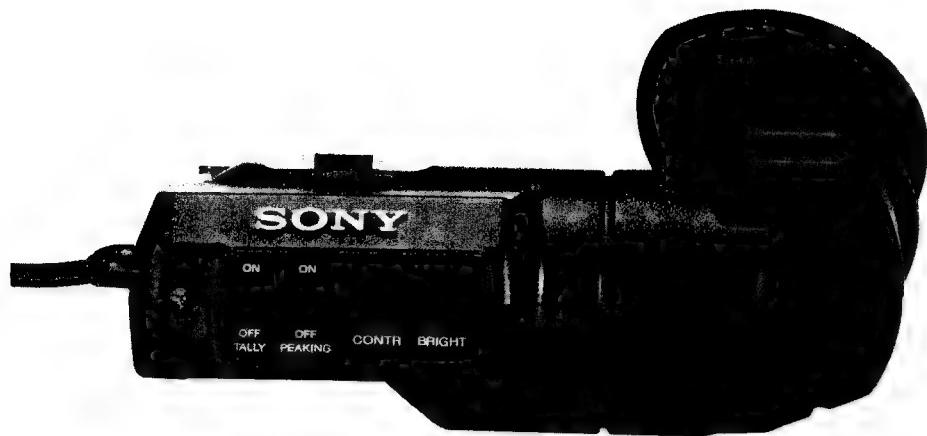
FRAME

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-948-158-11	o HARNESS (CCZ)
C101	1-161-051-00	s CERAMIC 0.01uF 10% 50V
C102	1-161-051-00	s CERAMIC 0.01uF 10% 50V
C103	1-161-051-00	s CERAMIC 0.01uF 10% 50V
C104	1-161-051-00	s CERAMIC 0.01uF 10% 50V
CN101	1-563-096-11	s CONNECTOR, 3P FEMAIL (WITH SW) "MIC IN"
CN102	1-562-244-00	o CONNECTOR, 26P, MALE "VTR/CCU/CMA"
CN103	1-564-603-11	s CONNECTOR (WITH DC SW) 4P, MALE "DC IN"
CN104	1-561-781-11	s CONNECTOR, BNC, FEMALE "GENLOCK IN"

J101	1-507-756-31	s JACK "EARPHONE"
S101	1-552-665-00	s SWITCH, MICRO "BATTERY"

Please see pages D-7 for the part numbers of capacitors and resistors that are not listed in the parts list.

1.5INCH ELECTRONIC VIEWFINDER



SPECIFICATIONS

Picture tube	1.5-inch monochrome
Indicators	REC/TALLY indicator BATT indicator SHUTTER indicator GAIN UP indicator
Resolution	400 lines
Power requirements	12 V DC
Power consumption	2.3 W
Weight	Approx. 500 g (1 lb 2 oz)
Dimensions	Approx. 182 × 68 × 205 mm (w/h/d)
Supplied accessory	Operating Instructions (1)

Design and specifications are subject to change without notice.

SONY®
SERVICE MANUAL

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B. SEMICONDUCTOR

SemiconductorB-1

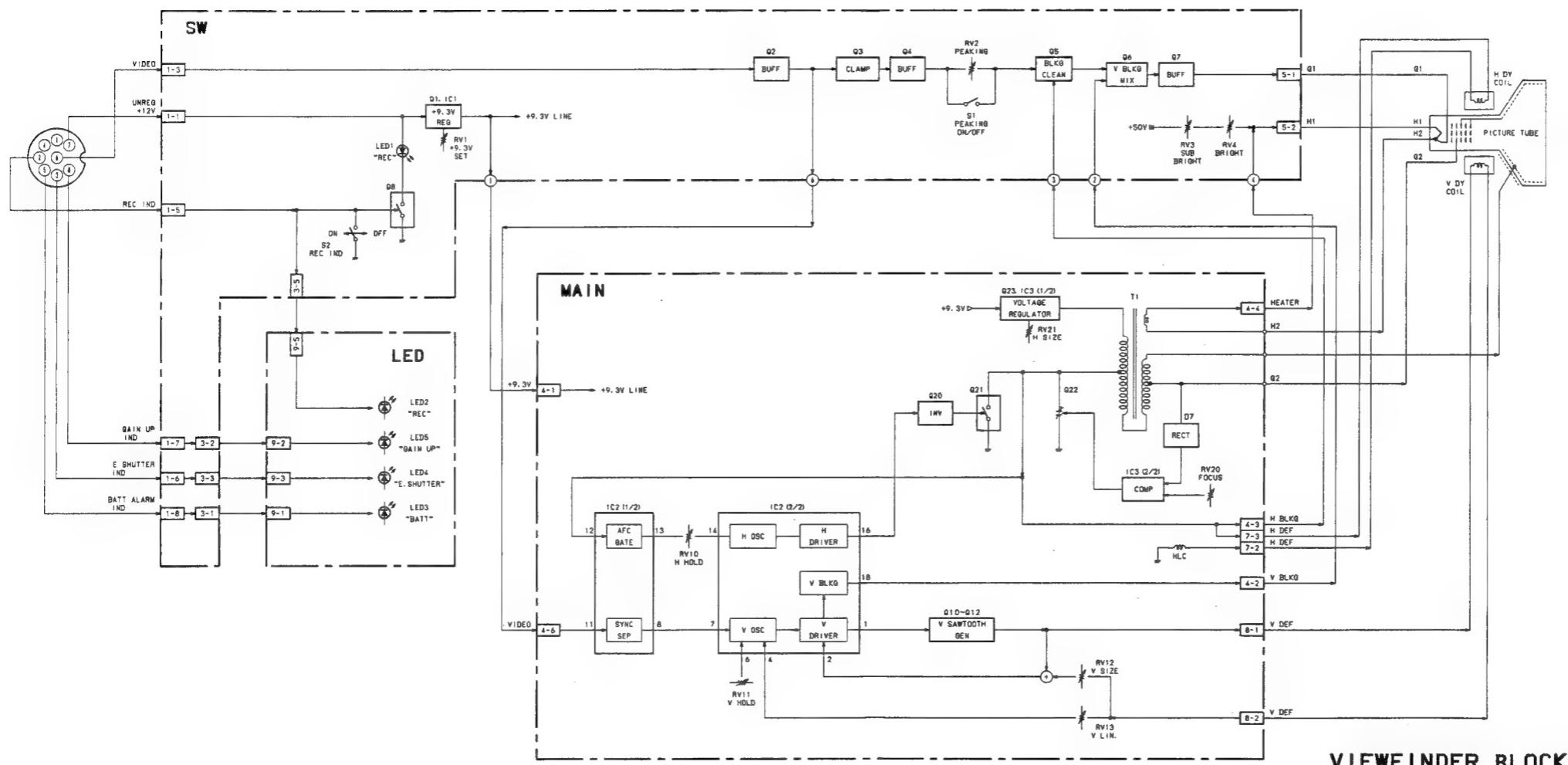
C. SCHEMATIC DIAGRAM AND BOARD ILLUSTRATION

MAIN 
SW 
LED C-3

D. SPARE PARTS

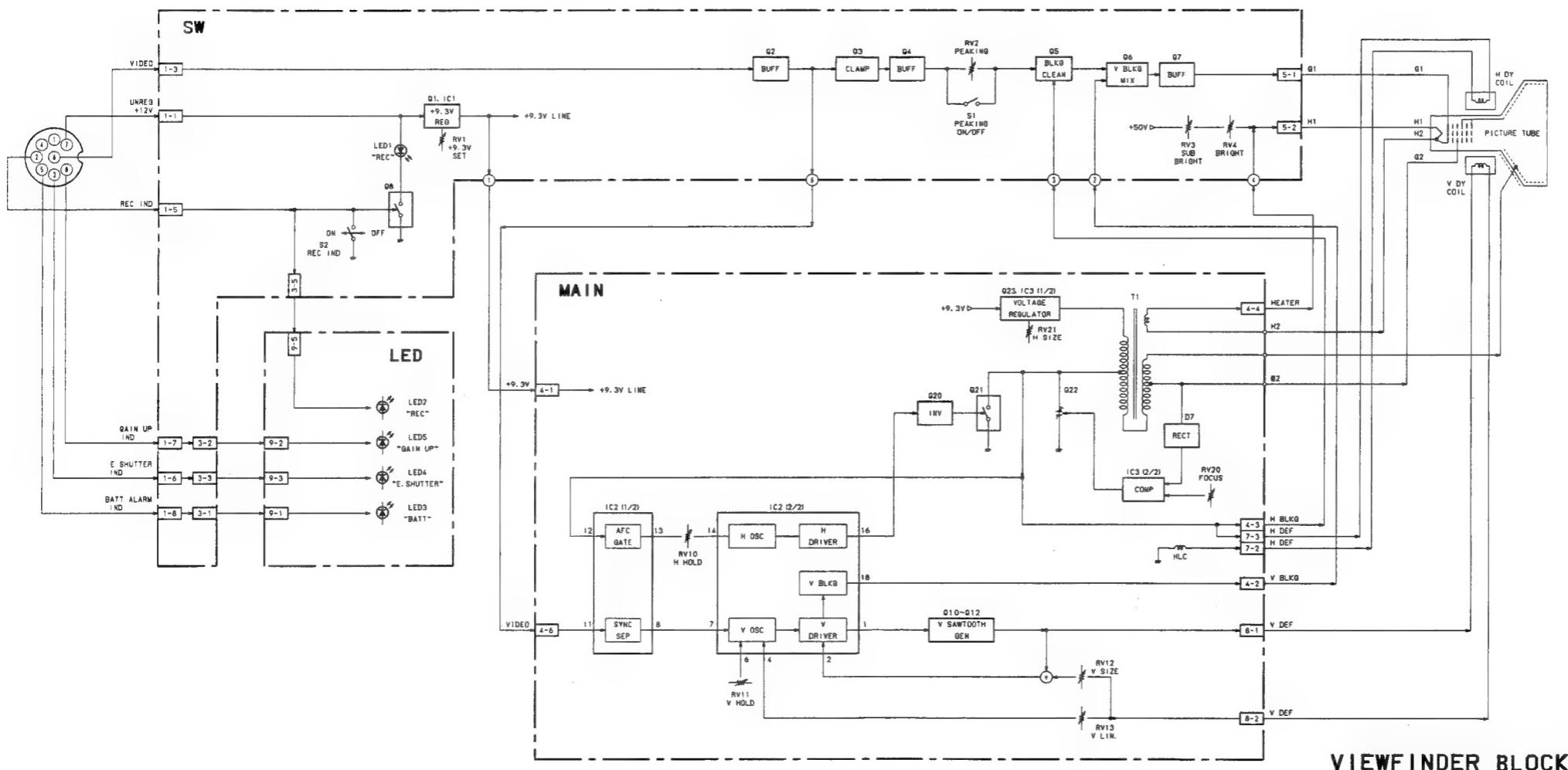
D-1. Parts InformationD-1
D-2. Exploded ViewD-3
D-3. Electrical Parts ListD-5

SECTION A
BLOCK DIAGRAM



BLOCK DIAGRAM

SECTION A
BLOCK DIAGRAM

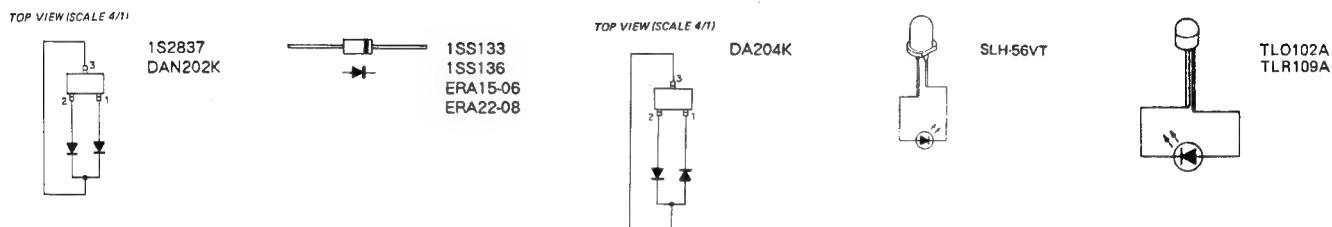


SECTION B

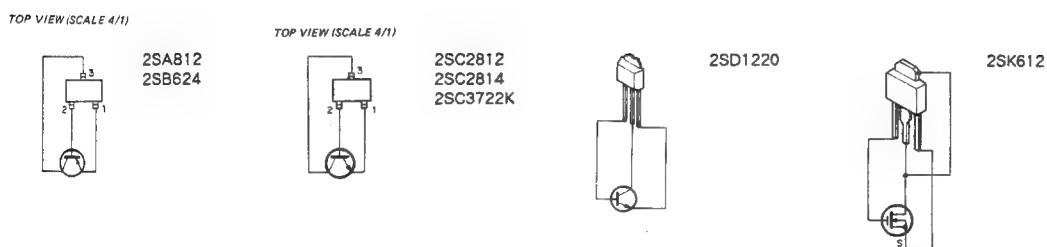
SEMICONDUCTOR PIN ASSIGNMENTS

The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

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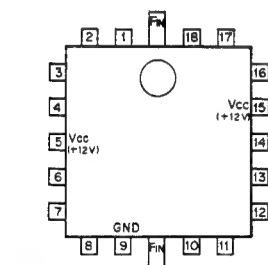


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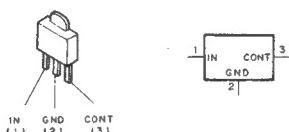


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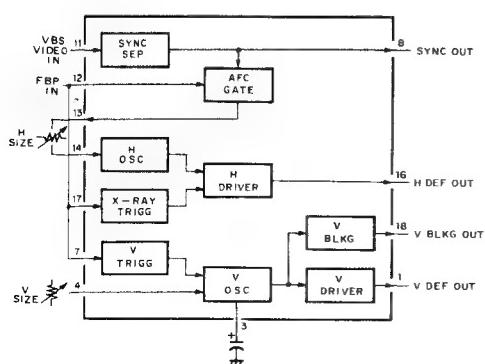
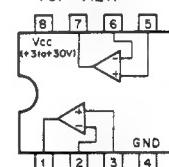
HA11423MP (HITACHI) FLAT PACKAGE
TV H/V SYNC SIGNAL PROCESSOR
- TOP VIEW -



M5236ML (MITSUBISI)
ADJUSTABLE VOLTAGE REGULATOR

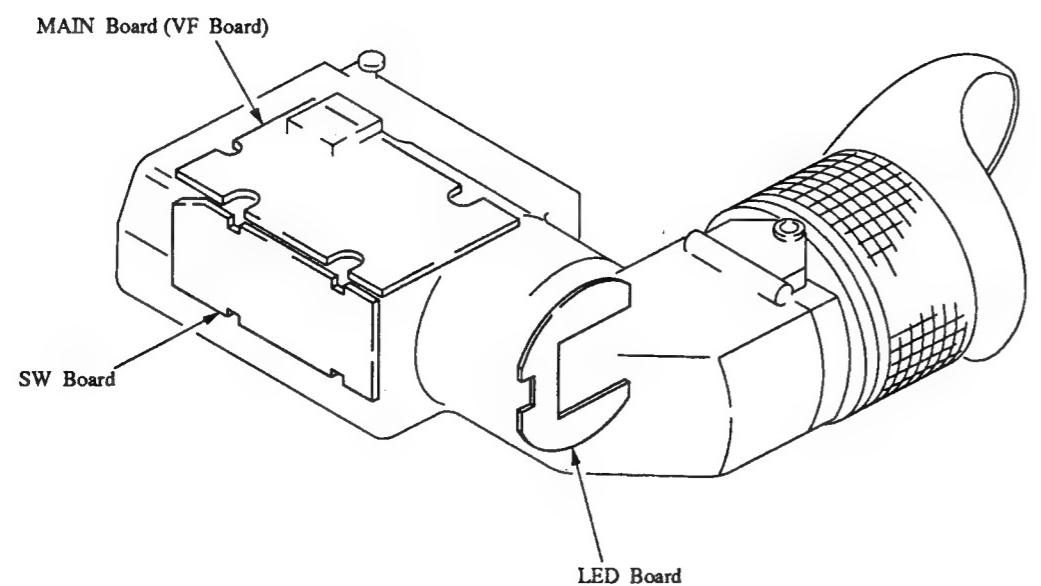


uPC358G2 (NEC) FLAT PACKAGE
DUAL OPERATIONAL AMPLIFIERS
- TOP VIEW -



DXF-501 (J, UC)
DXF-501CE (EK)

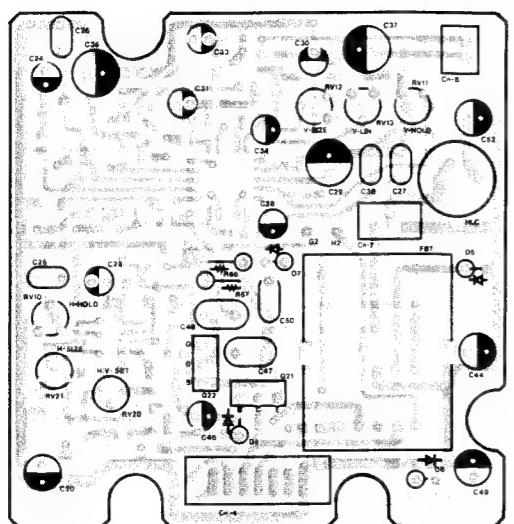
SECTION C
SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS



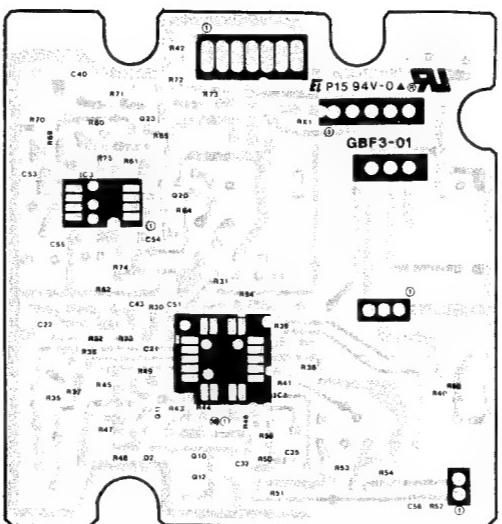
MAIN, SW, LED

MAIN, SW, LED

MAIN BOARD



COMPONENT SIDE



MAIN.SW
LED FRAME

MAIN.SW
FRAME LED

FRAME

1

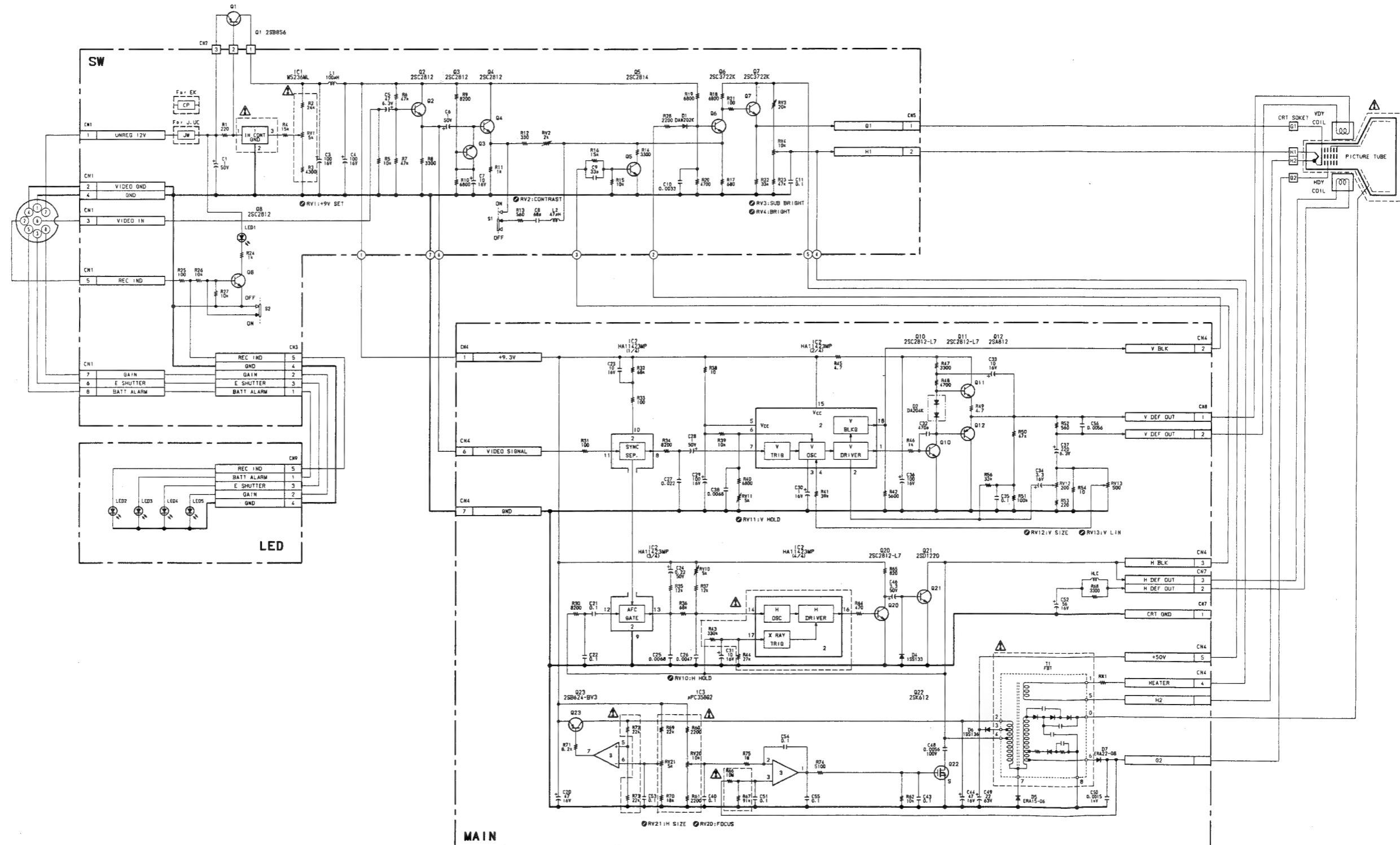
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3

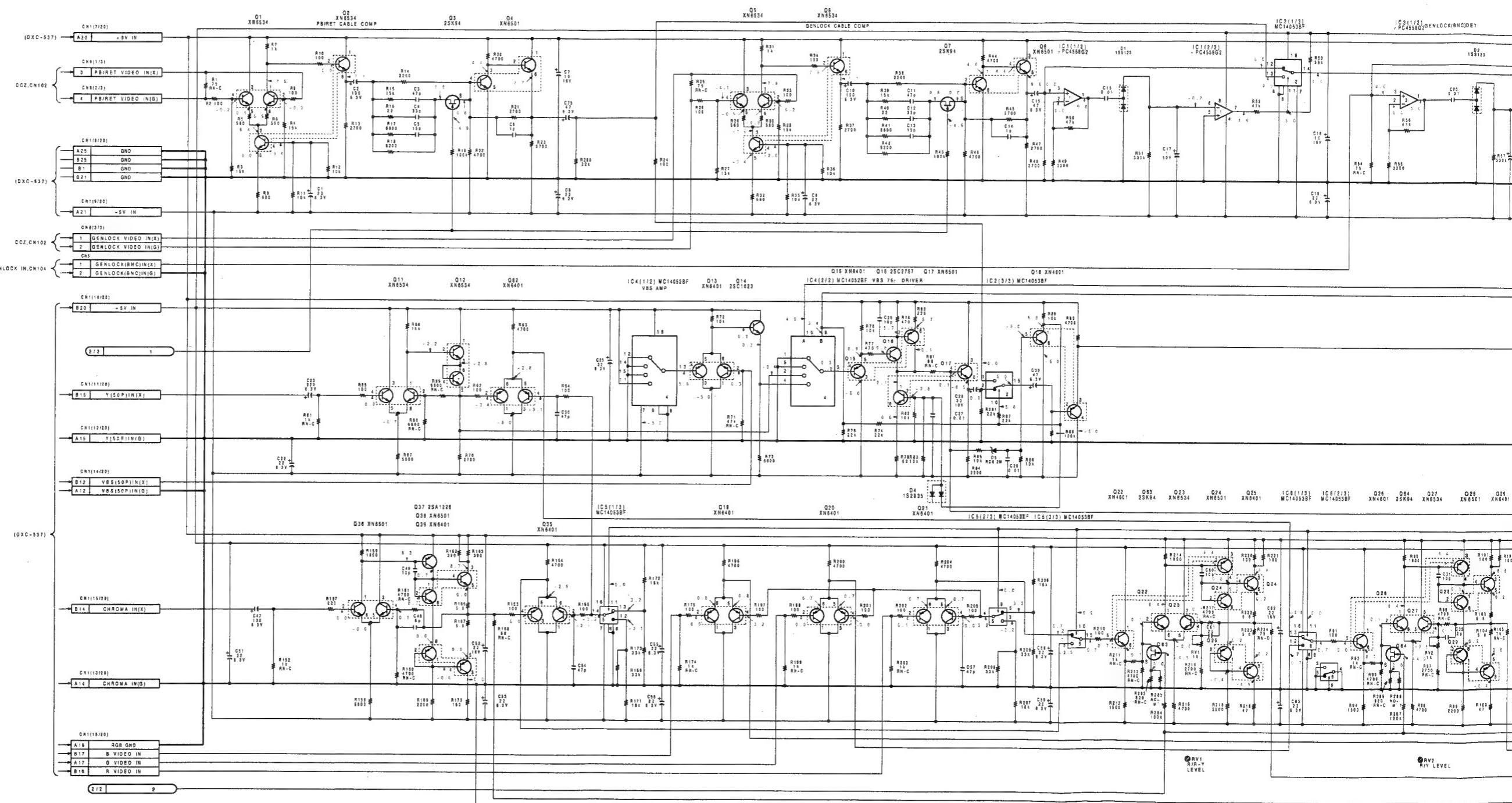
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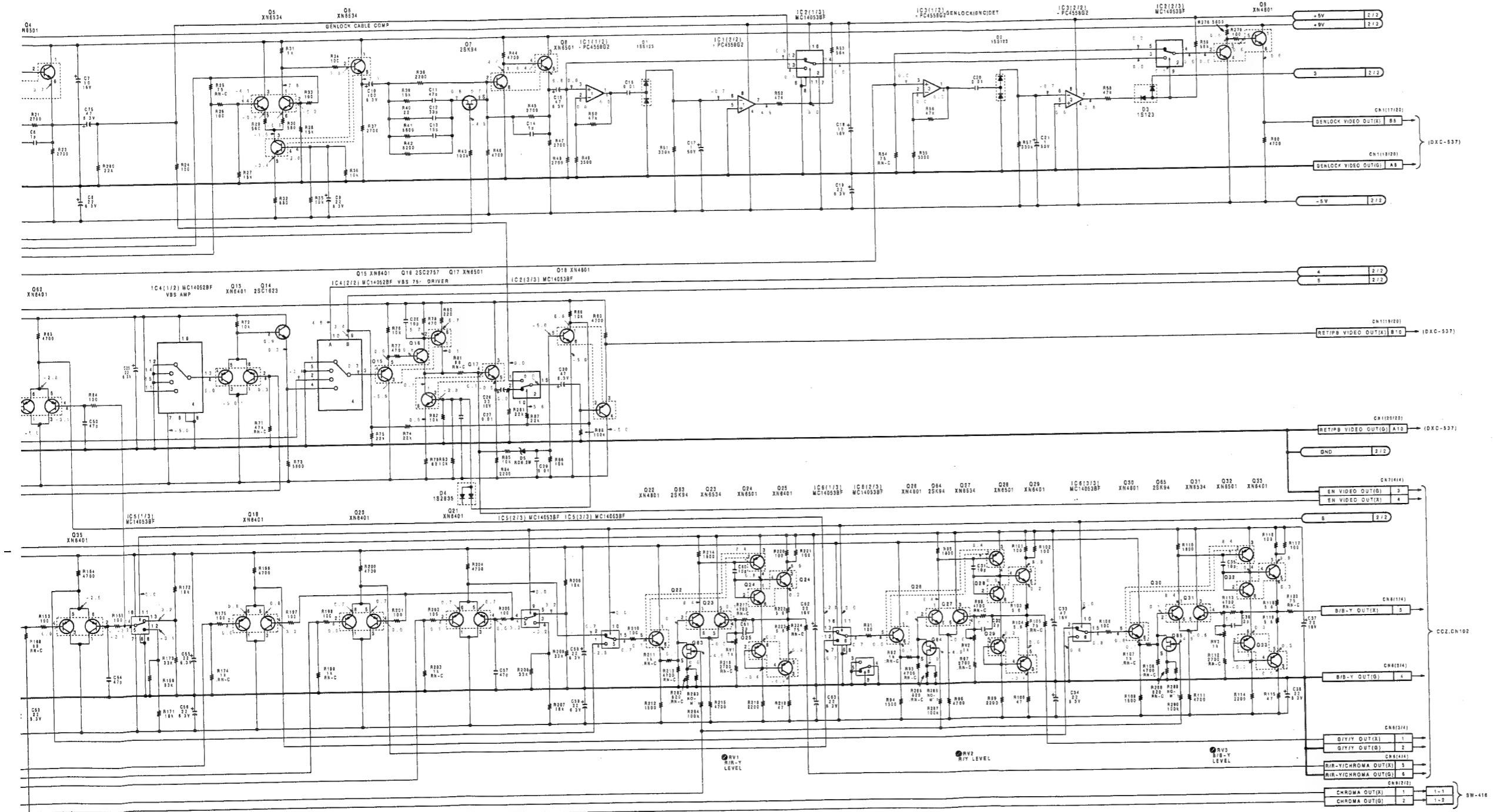
6



IF-313 BOARD(1/2)



CA-537 (J, U C)
CA-537P (E K)



E

F

G

H

C - 9

J

K

L

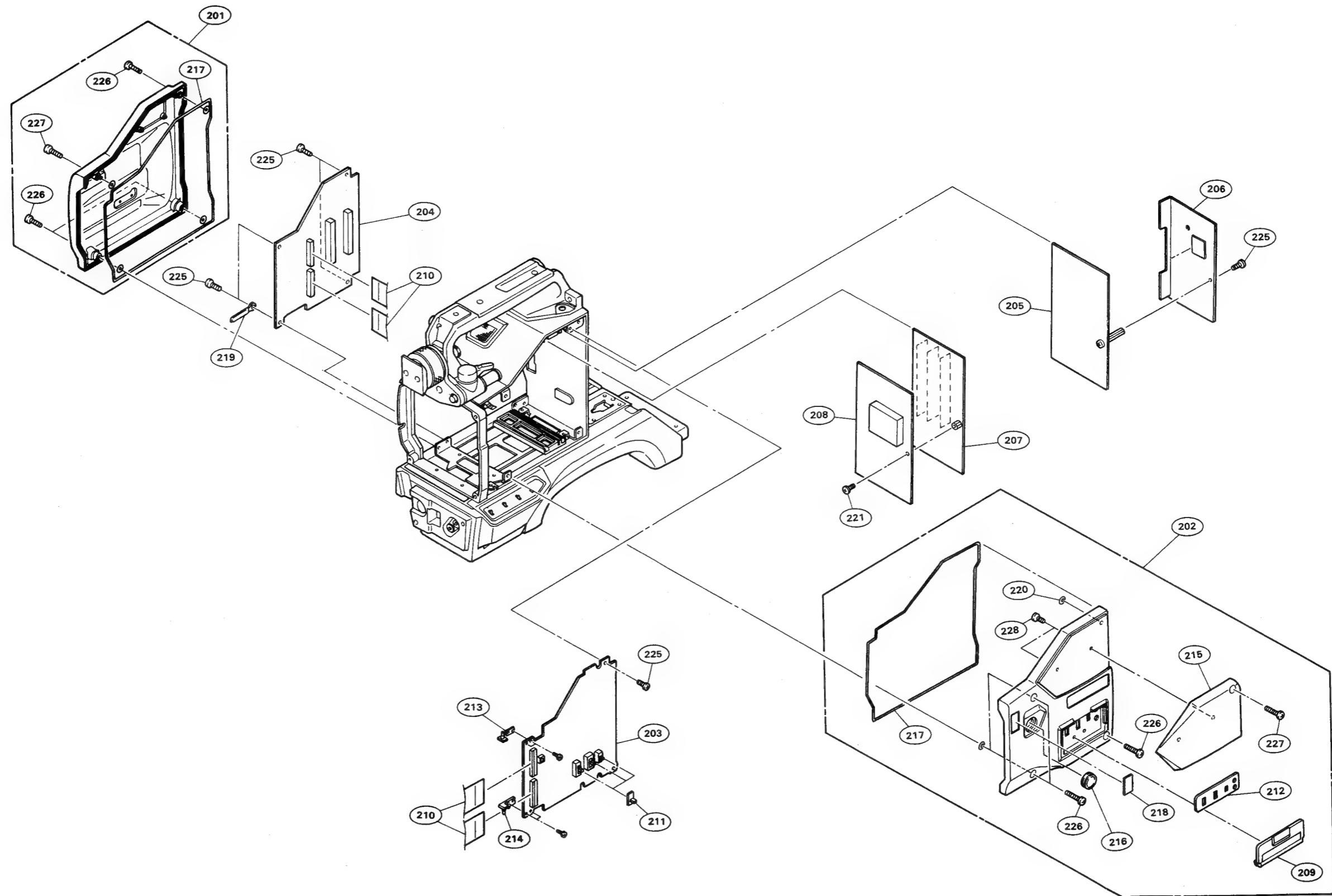
No.	Part No.	SP Description	
1	A 1-546-078-11	s CRT/DY ASSY	
2	1-589-128-11	o MAIN BOARD (for DXF-501)	55 9-994-826-01 o STOPPER, PWB
3	1-589-128-21	o MAIN BOARD (for DXF-501CE)	56 9-994-827-01 o COLLER
4	1-589-129-11	o SW BOARD (for DXF-501)	57 9-997-916-01 o MIRROR
5	1-589-129-21	o SW BOARD (for DXF-501CE)	58 9-997-917-01 o SPACER
			59 9-997-918-01 o RING, LOCK
6	2-277-453-00	s KNOB, CONTROL	60 9-997-919-01 o HOLDER A, LENS
7	2-277-456-00	s COLLER, STOPPER	61 9-997-920-01 o HOLDER B, LENS
8	2-277-457-00	s KNOB, STOPPER	62 9-997-921-01 o RING, ADJUSTMENT
9	2-277-466-01	s SPRING, COMPRESSION	63 9-997-922-01 o LID
10	2-277-468-01	o PLATE, ORNAMENTAL, CAMERA, SHOE	64 9-997-923-01 s EYECUP
11	2-381-461-02	s PIN, BLIND	65 9-997-924-01 o RING, RUBBER
12	2-381-462-01	s PIN	66 9-997-925-01 o BALL, STEEL
13	2-381-468-01	s PIN, STOPPER	67 3-680-417-01 s LUPE B, VF
14	2-381-472-02	o STOPPER	68 9-998-810-01 o CASE, TOP
16	2-832-007-00	s BUSHING (K), INSULATING	69 1-230-075-00 s RES, VAR, METAL 2K "CONTR" "BRIGHT"
17	3-657-700-00	s BRACKET, ACCESSORY	70 1-570-845-11 s SWITCH, SLIDE "TALLY ON/OFF" "PEAKING ON/OFF"
18	3-672-213-01	o SHEET, ADHESIVE	
19	3-680-604-01	o PLATE, BLIND	
20	3-680-605-00	o CAP, SLIDE	
21	3-688-709-01	s NUT, PLATE, SHOE	
24	3-703-037-00	s INSULATOR, TO-220	
25	7-621-255-25	s SCREW +P2X4	
26	7-621-255-52	s SCREW +P2X8	
27	7-621-773-95	s SCREW +B2.6X6	
28	7-621-775-00	s SCREW +B2.6X3	
29	7-624-102-04	s STOP RING, TYPE E	
31	7-627-552-58	s SCREW, PRECISION +P1.7X5	
32	7-627-553-28	s SCREW, PRECISION +P2X2.5	
33	7-627-553-68	s SCREW, PRECISION +P2X6	
34	7-682-248-09	s SCREW +K3X8	
35	7-682-550-09	s SCREW +B3X12	
36	7-685-131-19	s SCREW +BTP2.6X4	
37	7-688-008-04	s WASHER	
38	8-729-385-82	s TRANSISTOR 2SB858	
39	9-994-797-01	s CABLE, VF	
40	9-994-811-01	o SPRING, PLATE	
41	9-994-812-01	o INSULATOR	
42	9-994-813-01	o LABEL, SWITCH	
43	9-994-814-01	o CASE, BOTTOM	
44	9-994-815-01	o HOLDER T, OUTSIDE	
45	9-994-816-01	o PLATE, NUT	
46	9-994-817-01	o MOLT	
47	9-994-818-01	o HOLDER B, OUTSIDE	
48	9-994-819-01	o PIN, LOCK	
49	9-994-820-01	o RING, SLIDE	
50	9-994-821-01	o NUT, PLATE, CASE	
51	9-994-822-01	o GUIDE, VF SLIDE	
52	9-994-823-01	o LABEL, SLIDE	
53	9-994-824-01	o STOPPER	
54	9-994-825-01	o RUBBER, STOPPER	

Ref. No.	Part No.	SP Description	Ref. No.	Part No.	SP Description
		RESISTOR, CHIP	1-216-083-00	s RES, CHIP	27k 5% 1/10W
1/10W	O - 3.3M (E12) +-5%	1/10W	1-216-085-00	s RES, CHIP	33k 5% 1/10W
			1-216-087-00	s RES, CHIP	39k 5% 1/10W
			1-216-089-00	s RES, CHIP	47k 5% 1/10W
			1-216-091-00	s RES, CHIP	56k 5% 1/10W
1-216-295-00	s RES, CHIP	0 5% 1/10W	1-216-093-00	s RES, CHIP	68k 5% 1/10W
1-216-298-00	s RES, CHIP	2.2 5% 1/10W	1-216-095-00	s RES, CHIP	82k 5% 1/10W
1-216-302-00	s RES, CHIP	2.7 5% 1/10W	1-216-097-00	s RES, CHIP	100k 5% 1/10W
1-216-304-00	s RES, CHIP	3.3 5% 1/10W	1-216-099-00	s RES, CHIP	120k 5% 1/10W
1-216-306-00	s RES, CHIP	3.9 5% 1/10W	1-216-101-00	s RES, CHIP	150k 5% 1/10W
1-216-308-00	s RES, CHIP	4.7 5% 1/10W	1-216-103-00	s RES, CHIP	180k 5% 1/10W
1-216-309-00	s RES, CHIP	5.6 5% 1/10W	1-216-105-00	s RES, CHIP	220k 5% 1/10W
1-216-311-00	s RES, CHIP	6.8 5% 1/10W	1-216-107-00	s RES, CHIP	270k 5% 1/10W
1-216-313-00	s RES, CHIP	8.2 5% 1/10W	1-216-109-00	s RES, CHIP	330k 5% 1/10W
1-216-001-00	s RES, CHIP	10 5% 1/10W	1-216-111-00	s RES, CHIP	390k 5% 1/10W
1-216-003-00	s RES, CHIP	12 5% 1/10W	1-216-113-00	s RES, CHIP	470k 5% 1/10W
1-216-005-00	s RES, CHIP	15 5% 1/10W	1-216-115-00	s RES, CHIP	560k 5% 1/10W
1-216-007-00	s RES, CHIP	18 5% 1/10W	1-216-117-00	s RES, CHIP	680k 5% 1/10W
1-216-009-00	s RES, CHIP	22 5% 1/10W	1-216-119-00	s RES, CHIP	820k 5% 1/10W
1-216-011-00	s RES, CHIP	27 5% 1/10W	1-216-121-00	s RES, CHIP	1.0M 5% 1/10W
1-216-013-00	s RES, CHIP	33 5% 1/10W	1-216-123-00	s RES, CHIP	1.2M 5% 1/10W
1-216-015-00	s RES, CHIP	39 5% 1/10W	1-216-125-00	s RES, CHIP	1.5M 5% 1/10W
1-216-017-00	s RES, CHIP	47 5% 1/10W	1-216-127-00	s RES, CHIP	1.8M 5% 1/10W
1-216-019-00	s RES, CHIP	56 5% 1/10W	1-216-129-00	s RES, CHIP	2.2M 5% 1/10W
1-216-021-00	s RES, CHIP	68 5% 1/10W	1-216-131-00	s RES, CHIP	2.7M 5% 1/10W
1-216-023-00	s RES, CHIP	82 5% 1/10W	1-216-133-00	s RES, CHIP	3.3M 5% 1/10W
1-216-025-00	s RES, CHIP	100 5% 1/10W			
1-216-027-00	s RES, CHIP	120 5% 1/10W			
1-216-029-00	s RES, CHIP	150 5% 1/10W			
1-216-031-00	s RES, CHIP	180 5% 1/10W			
1-216-033-00	s RES, CHIP	220 5% 1/10W			
1-216-035-00	s RES, CHIP	270 5% 1/10W			
1-216-037-00	s RES, CHIP	330 5% 1/10W			
1-216-039-00	s RES, CHIP	390 5% 1/10W			
1-216-041-00	s RES, CHIP	470 5% 1/10W			
1-216-043-00	s RES, CHIP	560 5% 1/10W			
1-216-045-00	s RES, CHIP	680 5% 1/10W			
1-216-047-00	s RES, CHIP	820 5% 1/10W			
1-216-049-00	s RES, CHIP	1k 5% 1/10W			
1-216-051-00	s RES, CHIP	1.2k 5% 1/10W			
1-216-053-00	s RES, CHIP	1.5k 5% 1/10W			
1-216-055-00	s RES, CHIP	1.8k 5% 1/10W			
1-216-057-00	s RES, CHIP	2.2k 5% 1/10W			
1-216-059-00	s RES, CHIP	2.7k 5% 1/10W			
1-216-061-00	s RES, CHIP	3.3k 5% 1/10W			
1-216-063-00	s RES, CHIP	3.9k 5% 1/10W			
1-216-065-00	s RES, CHIP	4.7k 5% 1/10W			
1-216-067-00	s RES, CHIP	5.6k 5% 1/10W			
1-216-069-00	s RES, CHIP	6.8k 5% 1/10W			
1-216-071-00	s RES, CHIP	8.2k 5% 1/10W			
1-216-073-00	s RES, CHIP	10k 5% 1/10W			
1-216-075-00	s RES, CHIP	12k 5% 1/10W			
1-216-077-00	s RES, CHIP	15k 5% 1/10W			
1-216-079-00	s RES, CHIP	18k 5% 1/10W			
1-216-081-00	s RES, CHIP	22k 5% 1/10W			

Ref. No.	Part No.	SP Description	Ref. No.	Part No.	SP Description
MAIN BOARD					
	1-589-128-11 o MOUNTED CIRCUIT BOARD	"MAIN"	HLC	1-459-823-11 s COIL,HORIZONTAL LINEARITY	
	9-994-794-01 s CRT		IC2	8-759-300-28 s HA11423MP: HITACHI	
C20	9-994-781-01 s TANTALUM 47 16V		IC3	8-759-100-94 s μPC358G2:	
C21	1-163-038-11 s CHIP CERAMIC 0.1 25V		Q10	8-729-881-23 s 2SC2812-L7	
C22	1-163-038-11 s CHIP CERAMIC 0.1 25V		Q11	8-729-881-23 s 2SC2812-L7	
C23	1-126-157-11 s ELECT 10 20% 16V		Q12	8-729-100-76 s 2SA812	
C24	1-124-464-11 s ELECT 0.22 20% 50V		Q20	8-729-881-23 s 2SC2812-L7	
C26	9-994-780-01 s P-P CONDENCER 0.0047		Q21	9-994-771-01 s 2SD1220	
C28	1-124-438-11 s ELECT 1 20% 50V		Q22	8-729-119-00 s 2SK612	
C29	1-124-584-11 s ELECT 100 20% 10V		Q23	8-729-162-43 s 2SB624-BV3	
C30	1-131-347-00 s TANTALUM 1 10% 35V		R43	▲ 1-216-109-11 s CHIP 330K 5% 1/10W	
C31	1-126-157-11 s ELECT 10 20% 16V		R44	▲ 1-216-083-11 s CHIP 27K 5% 1/10W	
C32	1-163-133-11 s CHIP CERAMIC 470PF 5% 50V		R60	▲ 1-216-057-11 s CHIP 2.2K 5% 1/10W	
C33	1-126-157-11 s ELECT 10 20% 16V		R61	▲ 1-216-057-11 s CHIP 2.2K 5% 1/10W	
C34	1-126-162-11 s ELECT 3.3 20% 50V		R66	▲ 9-994-785-01 s 10M	
C35	1-163-088-11 s CHIP CERAMIC 0.1 25V		R67	▲ 9-994-786-01 s 91K	
C36	1-124-455-00 s ELECT 100 20% 16V		R69	▲ 1-216-081-11 s CHIP 22K 5% 1/10W	
C37	9-994-777-01 s ELECT 220 6.3V		R70	▲ 1-216-079-11 s CHIP 18K 5% 1/10W	
C38	1-130-481-11 s CAP,PE TEREPHTHALATE 0.0068 5% 50V		R72	▲ 1-216-081-11 s CHIP 22K 5% 1/10W	
C40	1-163-088-11 s CHIP CERAMIC 0.1 25V		R73	▲ 1-216-081-11 s CHIP 22K 5% 1/10W	
C43	1-163-088-11 s CHIP CERAMIC 0.1 25V		RV10	9-994-787-01 s 5K	
C44	9-994-782-01 s TANTALUM 47 16V		RV11	9-994-788-01 s 5K	
C46	1-126-162-11 s ELECT 3.3 20% 50V		RV12	9-994-789-01 s 200	
C48	9-994-783-01 s 0.0056 100V		RV13	9-994-790-01 s 500	
C49	9-994-778-01 s ELECT 22 63V		RV20	▲ 1-228-459-11 s METAL 10K	
C50	9-994-784-01 s 0.0015 1K		RV21	▲ 1-228-458-11 s METAL 5K	
C51	1-163-088-11 s CHIP CERAMIC 0.1 25V		T1	▲ 1-439-419-11 s FBT	
C52	9-994-779-01 s ELECT 56 16V				
C53	1-163-088-11 s CHIP CERAMIC 0.1 25V				
C54	1-163-088-11 s CHIP CERAMIC 0.1 25V				
C55	1-163-088-11 s CHIP CERAMIC 0.1 25V				
CN4	9-994-791-01 o RECEPTACLE, 7P				
CN7	9-994-792-01 o RECEPTACLE, 3P				
CN8	9-994-793-01 o RECEPTACLE, 2P				
D2	8-719-914-42 s DA204K				
D4	8-719-911-19 s 1SS119				
D5	9-994-773-01 s ERA15-06				
D6	9-994-774-01 s 1SS136				
D7	8-719-948-45 s ERA22-08				

Ref. No.	Part No.	SP Description	Ref. No.	Part No.	SP Description
SW BOARD					
	1-589-129-11	o MOUNTED CIRCUIT BOARD "SW" (J,UC)	R2	Δ 9-994-799-01	s CHIP 24K 5% 1/10W
	1-589-129-21	o MOUNTED CIRCUIT BOARD "SW" (EK)	R3	Δ 1-216-064-11	s CHIP 4.3K 5% 1/10W
C1	1-124-438-11	s ELECT 1 20% 50V	RV1	Δ 1-228-473-11	s METAL 5K
C3	1-124-584-11	s ELECT 100 20% 10V	RV2	1-230-075-11	s CARBON 2K "CONTR"
C4	1-124-584-11	s ELECT 100 20% 10V	RV3	1-228-475-11	s METAL 20K
C5	1-126-154-11	s ELECT 47 20% 6.3V	RV4	1-226-368-11	s CARBON 10K "BRIGHT"
C6	1-124-438-11	s ELECT 1 20% 50V			
C7	1-124-462-11	s ELECT 10 20% 16V			
C8	1-163-113-11	s CHIP CERAMIC 68PF 5% 50V	S1	1-570-845-11	s SLIDE "PEAKING ON/OFF"
C9	1-163-105-11	s CHIP CERAMIC 33PF 5% 50V	S2	1-570-845-11	s SLIDE "TALLY ON/OFF"
C10	1-163-015-11	s CHIP CERAMIC 0.0033 10%			
		50V			
C11	1-163-038-11	s CHIP CERAMIC 0.1 25V			
LED BOARD					
CN1	9-994-803-01	o 8P		1-589-127-11	o MAUNTED CIRCUIT BOARD "LED"
CN2	9-994-804-01	o 3P			
CN3	9-994-805-01	o 5P			
CN4	9-994-806-01	o 7S			
CN5	9-994-807-01	o 2P			
				9-994-810-01	o LED PWB
CP	9-994-808-01	s PROTECTORS ICP-N10(EK)	CN9	9-994-809-01	o RECEPTACLE, 5P
D1	8-719-914-43	s DAN202K			
IC1	Δ 8-759-630-27	s M5236ML: MITSUBISHI	LED2	8-719-800-25	s TLR109A
			LED3	8-719-800-25	s TLR109A
			LED4	8-719-800-25	s TLR109A
			LED5	8-719-800-19	s TL0102A
L1	9-994-800-01	s 100μH	FRAME		
L2	9-994-801-01	s 47μH			
LED1	9-994-802-01	s SLH-56VT	Q1	8-729-315-63	s 2SB856
Q2	8-729-881-23	s 2SC2812-L7	PACKING MATERIAL AND ACCESSORIES		
Q3	8-729-881-23	s 2SC2812-L7		3-166-610-01	o CARTON, INDIVIDUAL(UC)
Q4	8-729-881-23	s 2SC2812-L7		3-166-612-01	o CARTON, INDIVIDUAL(EK)
Q5	1-806-828-11	s 2SC2814		3-699-152-01	o CUSHION, UPPER
Q6	9-994-796-01	s 2SC3722K		3-699-153-03	o CUSHION, LOWER
Q7	9-994-796-01	s 2SC3722K		3-701-627-01	o BAG, POLY
Q8	8-729-881-23	s 2SC2812-L7			

CHASSIS (2) BLOCK



PACKING MATERIAL AND ACCESSORIES

DXC-537PH

No. Part No. SP Description

- 1 3-171-971-01 o INDIVIDUAL CARTON
- 2 3-171-972-01 o CUSHION (UPPER)
- 3 3-171-973-01 o CUSHION (LOWER)
- 4 3-752-841-11 s MANUAL, INSTRUCTION (GERMAN)
- 5 3-752-841-22 s MANUAL, INSTRUCTION (ENGLISH)
- 6 3-752-841-32 s MANUAL, INSTRUCTION (FRENCH)
- 7 3-752-841-41 s MANUAL, INSTRUCTION (ITALIAN)
- 8 3-752-841-51 s MANUAL, INSTRUCTION (CHINESE)
- 9 3-764-889-01 o CHART, ADJUSTMENT

DXC-537PL

No. Part No. SP Description

- 1 3-169-728-01 o INDIVIDUAL CARTON
- 2 3-752-841-11 s MANUAL, INSTRUCTION (GERMAN)
- 3 3-752-841-22 s MANUAL, INSTRUCTION (ENGLISH)
- 4 3-752-841-32 s MANUAL, INSTRUCTION (FRENCH)
- 5 3-752-841-41 s MANUAL, INSTRUCTION (ITALIAN)
- 6 3-752-841-51 s MANUAL, INSTRUCTION (CHINESE)
- 7 3-764-889-01 o CHART, ADJUSTMENT

DXC-537PK

No. Part No. SP Description

- 1 3-169-726-01 o INDIVIDUAL CARTON
- 2 3-752-841-11 s MANUAL, INSTRUCTION (GERMAN)
- 3 3-752-841-22 s MANUAL, INSTRUCTION (ENGLISH)
- 4 3-752-841-32 s MANUAL, INSTRUCTION (FRENCH)
- 5 3-752-841-41 s MANUAL, INSTRUCTION (ITALIAN)
- 6 3-752-841-51 s MANUAL, INSTRUCTION (CHINESE)
- 7 3-764-889-01 o CHART, ADJUSTMENT

EVW-537PK

No. Part No. SP Description

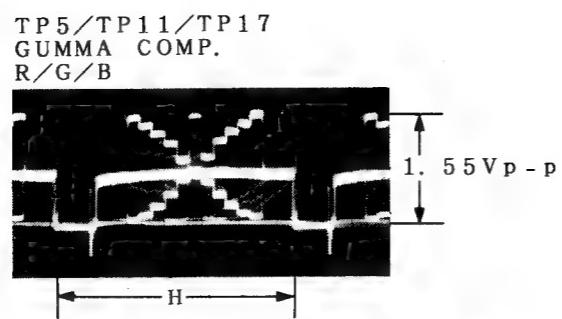
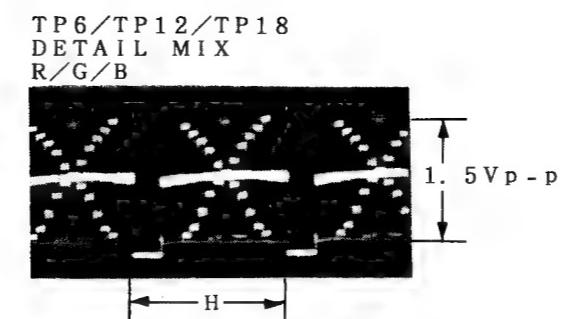
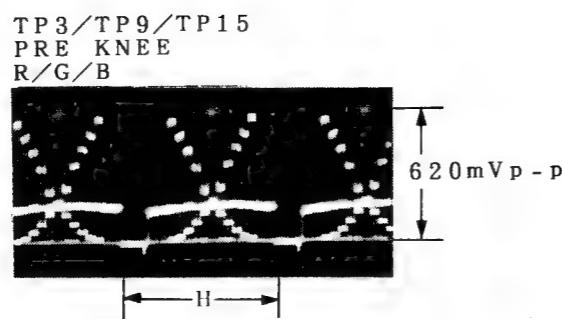
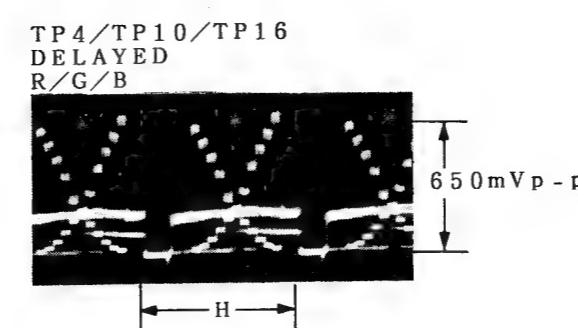
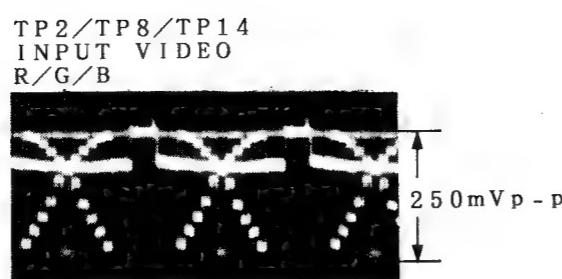
- 1 3-169-722-01 o INDIVIDUAL CARTON
- 2 3-698-917-01 o BELT, SHOULDER
- 3 3-752-841-11 s MANUAL, INSTRUCTION (GERMAN)
- 4 3-752-841-22 s MANUAL, INSTRUCTION (ENGLISH)
- 5 3-752-841-32 s MANUAL, INSTRUCTION (FRENCH)
- 6 3-752-841-41 s MANUAL, INSTRUCTION (ITALIAN)
- 7 3-752-841-51 s MANUAL, INSTRUCTION (CHINESE)
- 8 3-752-874-01 s MANUAL, INSTRUCTION
- 9 3-764-889-01 o CHART, ADJUSTMENT

PR-143 BOARD**NOTE :**

1. All voltage are DC measured with a digital voltmeter.
2. All waveforms are taken and DC voltage is measured in condition below.

- Connect the camera adapter CA-537P to the camera.
- Shoot the grayscale chart. Adjust lens iris so that a white level is 700mV on the waveform monitor.

• OUTPUT : CAM
 • GAIN : 0 dB
 • WHITE BAL : PRE
 • SHUTTER : OFF
 • ZEBRA MARKER : OFF OFF
 • PHASE : 0°

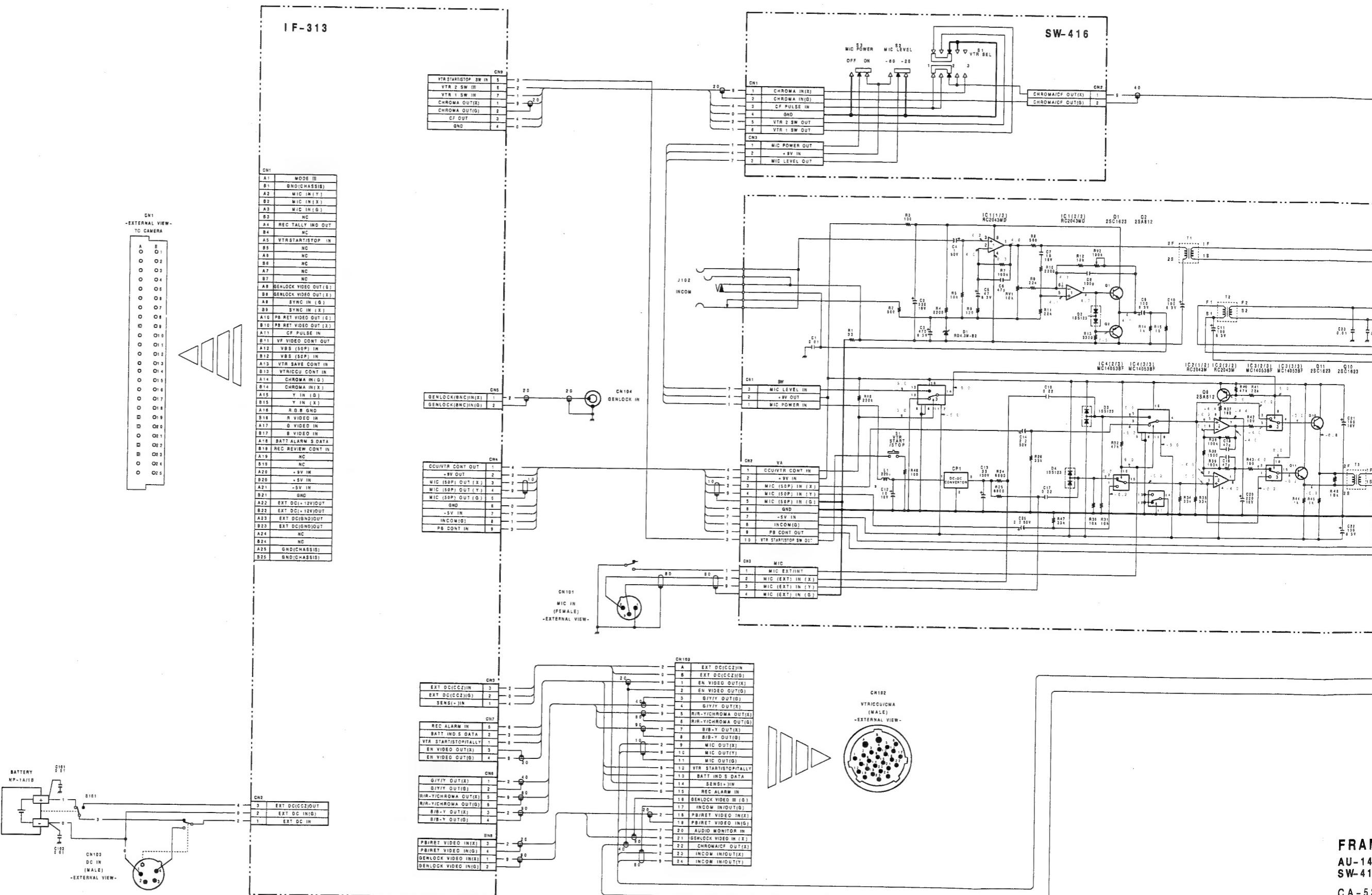


FRAME
AU-141 BOARD
SW-416 BOARD

AU-141 SW-416 FRAME

FRAME AU-141 SW-416

IF-313



CA-537 (J, U C)
CA-537P (E K)

C-19

A

B

C

D

E

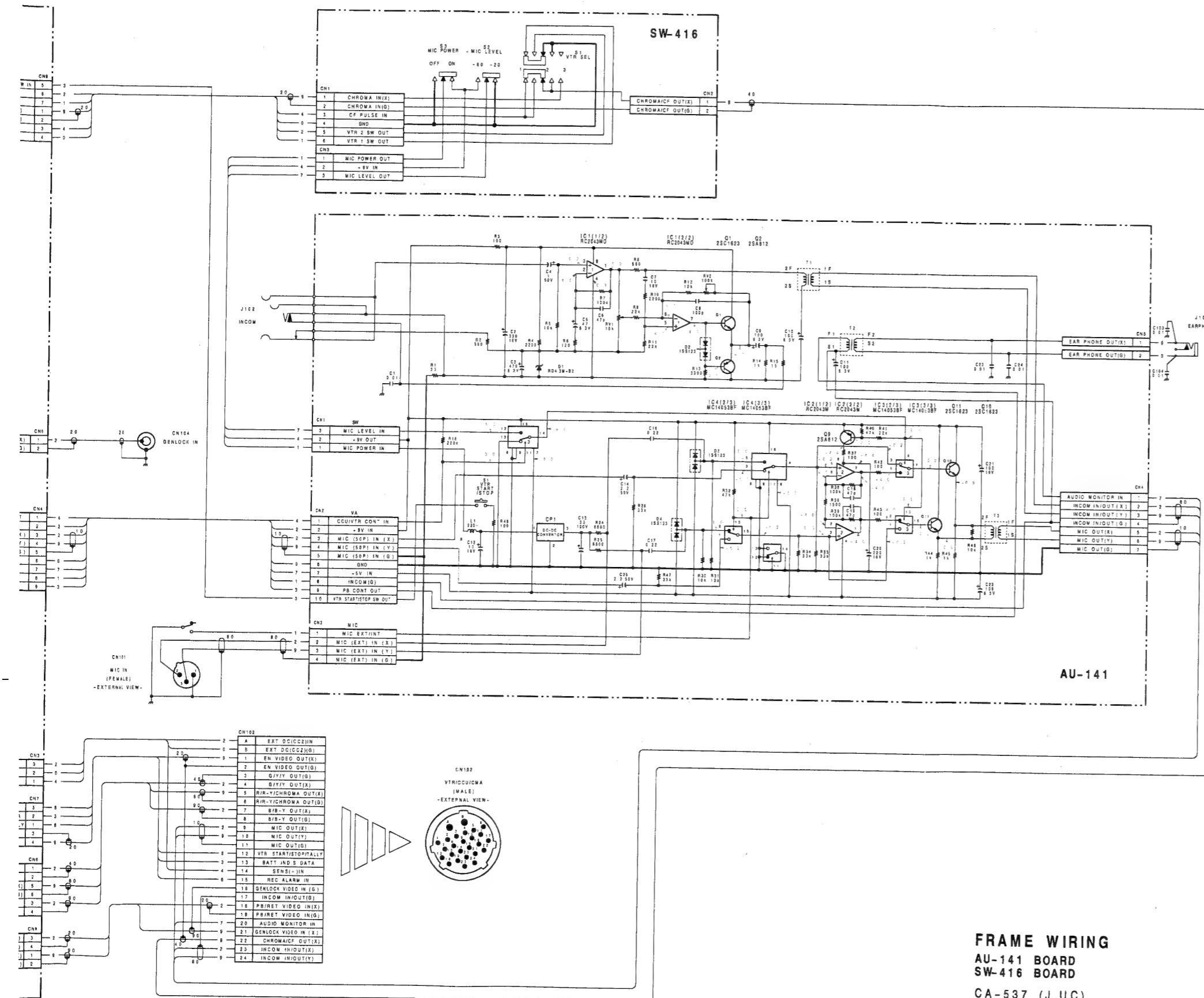
F

G

H

C-20

FRAM
AU-14
SW-41
CA-53
CA-53

**FRAME WIRING****AU-141 BOARD
SW-416 BOARD****CA-537 (J, U.C)
CA-537P(E.K)**

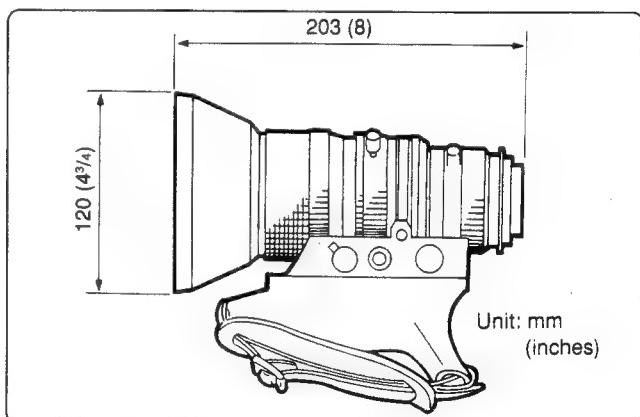
ZOOM LENS



SPECIFICATIONS

Focal length	9.5 to 152 mm
Zoom	Manual and motorized, selectable Zooming ratio: 16x
Maximum aperture ratio	11.8
Iris control	Manual and auto, selectable 1.8 to 16 and C (closed)
Range of object field (at the distance of 0.95 m)	
	W (wide angle): 823 × 617 mm (32½ × 24¾ inches)
	T (telephoto): 51 × 38 mm (2⅛ × 1½ inches)
Minimum object distance	0.95 m
Filter thread	77 mm dia., 0.75 pitch
Mount	Bayonet mount, 2/3 inch
Weight	About 1.4 kg (3 lb 1 oz) without lens hood
Supplied accessory	Operating instructions (1)

Dimensions

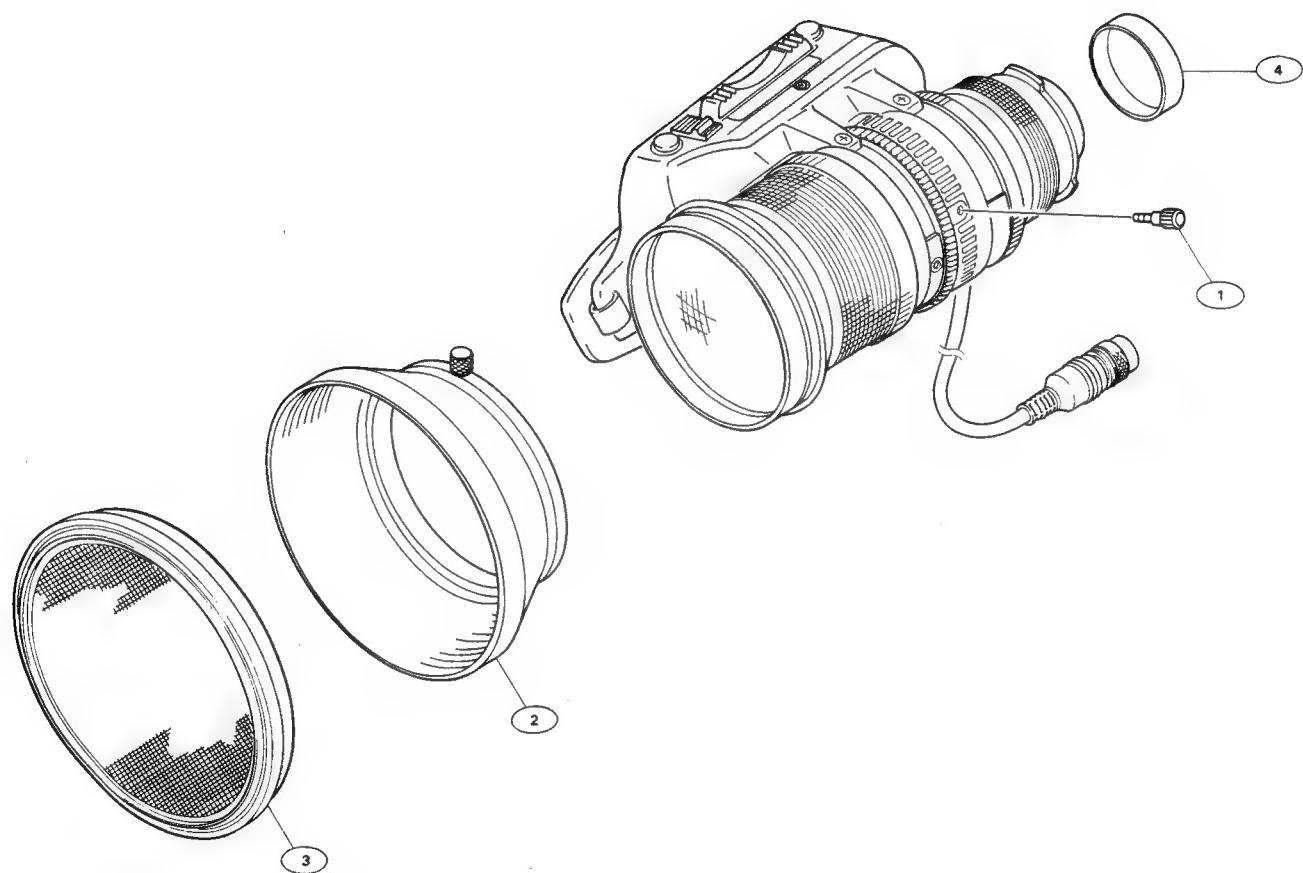


Design and specifications are subject to change without notice.

SONY®
SERVICE MANUAL

No.	Part No.	SP Description
-----	----------	----------------

- | | | |
|---|--------------|---------------|
| 1 | 3-707-245-01 | o CAP, FOOD |
| 2 | 3-707-246-01 | o CAP, DUST |
| 3 | 3-707-247-01 | o LEVER, ZOOM |
| 4 | 3-708-171-01 | o HOOD, LENS |



SECTION D SPARE PARTS

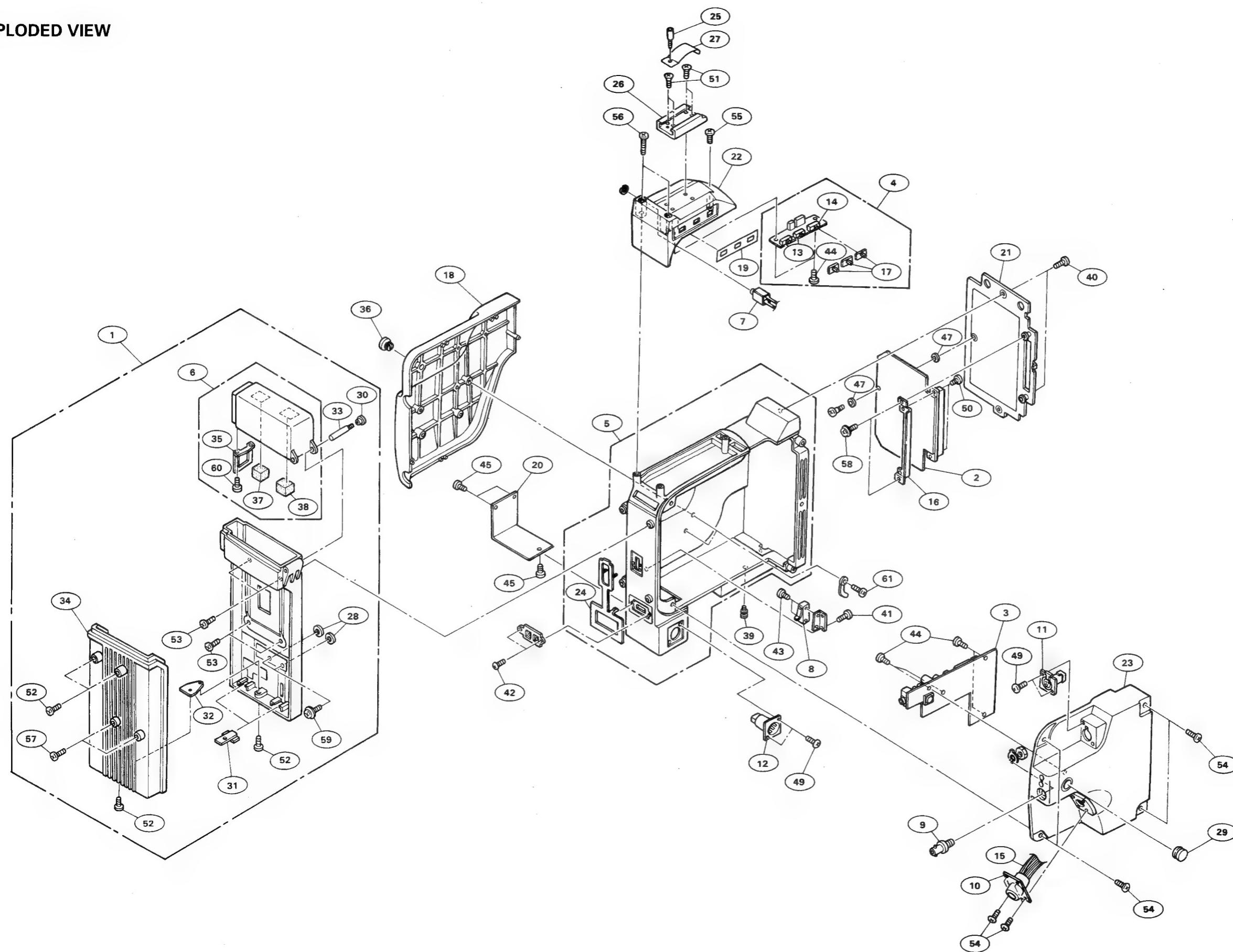
PARTS INFORMATION

1. Safety Related Component Warning

Components identified by shading marked with  on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "**accommodating the improved parts and/or engineering changes**" or "**standardization of genuine parts**." This manual's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our engineering department, refer to SONY service bulletins and service manual supplements.
3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.
5. All capacitors are in micro farads unless otherwise specified.
All inductors are in micro henries unless otherwise specified.
All resistors are in ohms.

EXPLODED VIEW



TRIPOD ATTACHMENT

SPECIFICATIONS

Dimensions	Approx. 282 x 27 x 80 mm (w/h/d) (11 $\frac{1}{8}$ x 1 $\frac{1}{8}$ x 3 $\frac{1}{4}$ inches) without V-wedge.
Weight	Approx. 0.9 kg (2 lb)

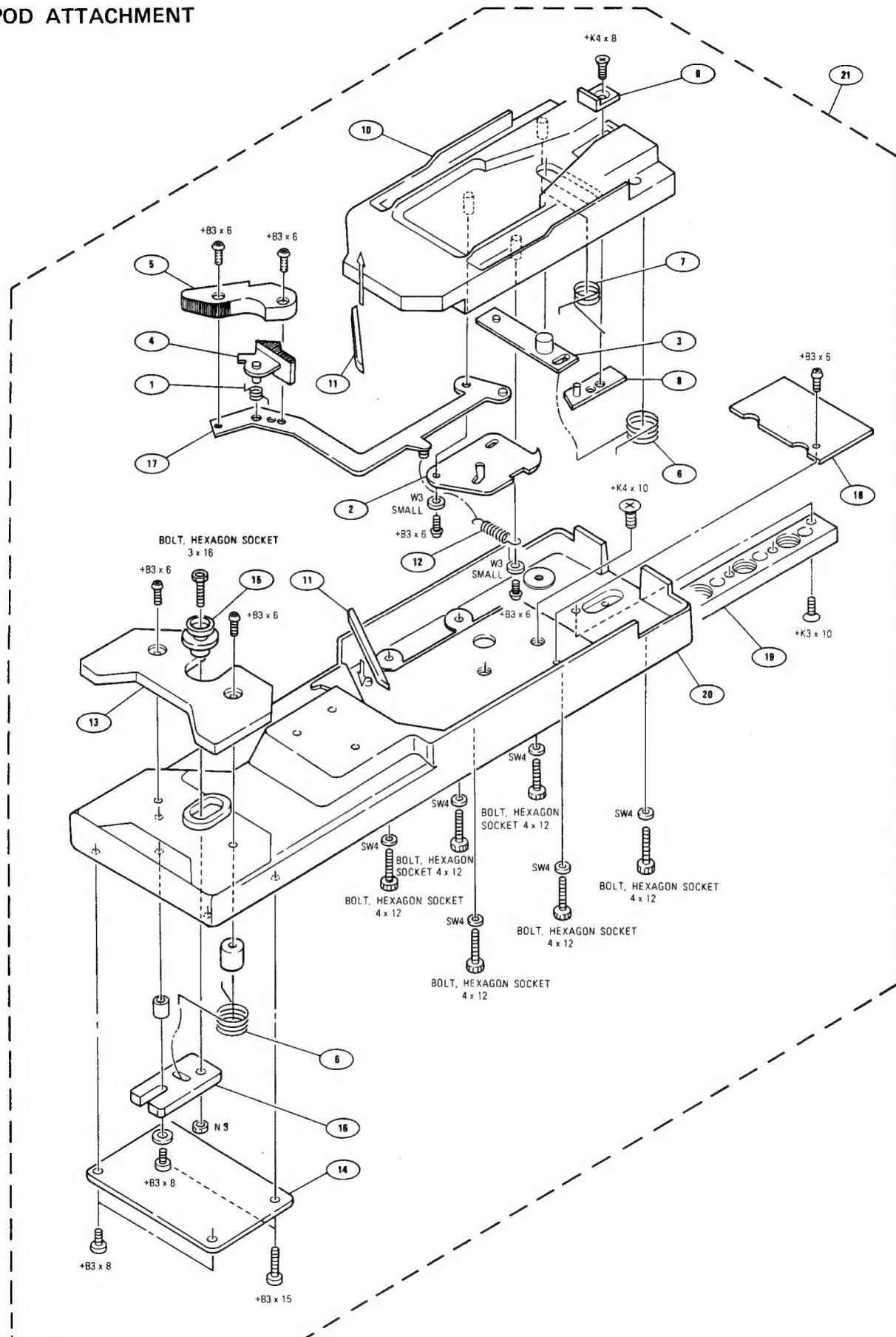
Design and specifications subject to change without notice.

SONY®
SERVICE MANUAL

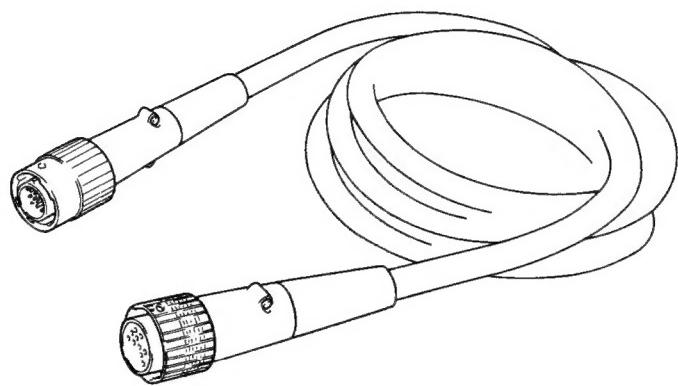
EXPLODED VIEW

No.	Parts No.	SP Description
1	2-381-631-01	o SPRING
2	2-381-632-01	o ARM, LOCKER
3	2-381-633-01	o SOLENOID
4	2-381-635-01	o LEVER, LOCK
5	2-381-636-01	o KNOB
6	2-381-637-01	o SPRING
7	2-381-638-01	o SPRING
8	2-381-640-01	o DOG
9	2-381-641-01	o COLLAR
10	2-381-642-02	o MOUNT
11	2-381-648-01	o INSULATOR, KNOB
12	2-381-652-01	o SPRING, TENSION
13	3-678-704-00	o SPACER
14	3-720-906-01	o LID (S), REAR
15	3-720-907-01	o PIN (S), REAR
16	3-720-908-01	o TABLE (S), PIN, REAR
17	3-720-909-01	o KNOB, CRANK
18	3-720-910-01	o SHEET, SLIDE
19	3-720-911-01	o BASE, TRIPOD FITTING SCREW
20	3-720-912-01	o FRAME (S)
21	OPTIONAL ACCESSORY: TRIPOD ATTACHMENT "VCT-14"	

TRIPOD ATTACHMENT



CAMERA CABLE



SONY®
SERVICE MANUAL

EXPLODED VIEW

No. Parts No. SP Description

1 1-508-929-00 s CONNECTOR, 14P MALE
2 1-564-184-00 s CONNECTOR, 26P FEMALE

